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FILE COVERS 1907 - 10 May 2003 VOL 138 ISS 20

FILE LAST UPDATED: 9 May 2003 (20030509/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot 1159

L159 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:525854 HCAPLUS

DN 135:103786

TI Systems for controlling plant and flower moisture transpiration rates

IN **Smith, Steven Daryl; Hamersky, Mark William**

PA **Procter + Gamble Company, USA**

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N003-02

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001050856	A1	20010719	WO 2001-US1211	20010112
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 2002006873	A1	20020117	US 2001-759864	20010112
	EP 1255438	A1	20021113	EP 2001-904859	20010112
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRAI	US 2000-176089P	P	20000114		
	WO 2001-US1211	W	20010112		
OS	MARPAT 135:103786				
AB	The present invention relates to a system for controlling plant and flower moisture transpiration and thereby extending the period of time in which cut flowers can be displayed before senescence produces a flower which has exceeded its aesthetic value. The systems of the present invention				

comprise: (a) a first component in the form of a soln., said soln. applied to the surface of a plant or flower exposed to air, said first component comprising: (i) a polymer having a water vapor transfer rate of less than 10 g-mm/m<sup>2</sup>-day and a glass transition temp., T<sub>g</sub>, greater than about 30 .degree.C; (ii) the balance carriers and adjunct ingredients; wherein said polymer is in the form of a microemulsion having a particle size less than 400 nm; and (b) a second component comprising: (i) a source of energy for the plant or flower being treated; (ii) an antimicrobial; where the second component is dissolved in water to form a soln. into which the plant or flower to be preserved is placed.

ST cut flower preservative system

IT Polymers, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(co-; systems for controlling plant and cut flower moisture transpiration rates)

IT Agrochemical formulations

(microemulsions; systems for controlling plant and cut flower moisture transpiration rates)

IT Agrochemical formulations

(solns.; systems for controlling plant and cut flower moisture transpiration rates)

IT Antimicrobial agents

#### Buffers

Cut flower preservation

Glass transition temperature

Preservatives

Surfactants

Transpiration (plant)

(systems for controlling plant and cut flower moisture transpiration rates)

IT Polyoxalkylenes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(systems for controlling plant and cut flower moisture transpiration rates)

IT 50-99-7, Dextrose, biological studies 57-50-1,

Sucrose, biological studies 499-40-1, Isomaltose

2016-45-7, Hexadecyl dimethylammonium chloride 2016-47-9

, 1-Tetradecanamine, N,N-dimethyl-, hydrochloride 2016-48-0,

Dodecyl dimethylammonium chloride 2634-33-5, 1,

2-Benzisothiazolin-3-one

3401-74-9, Didodecyl dimethylammonium chloride 7758-29-4, Sodium

tripolyphosphate 25035-69-2 172344-71-7, Miranol Ultra C 32

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(systems for controlling plant and cut flower moisture transpiration rates)

IT 64-17-5, Ethanol, biological studies 67-56-1, Methanol, biological

studies 67-63-0, Isopropanol, biological studies 71-23-8, 1-Propanol,

biological studies 107-21-1, Ethylene glycol, biological studies

2682-20-4, 2-Methyl-4-

isothiazolin-3-one 25322-69-4, Polypropylene

glycol 26172-55-4, 5-Chloro-2-

methyl-4-isothiazolin-3-one

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(systems for controlling plant and cut flower moisture transpiration rates)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) de Long, C; US 4094845 A 1978

(2) Ferguson & Earle; US 3157964 A 1964

(3) Hanafusa, M; US 5679617 A 1997 HCAPLUS

(4) Law, A; US 4173643 A 1979 HCAPLUS

IT 50-99-7, Dextrose, biological studies 57-50-1,  
 Sucrose, biological studies 499-40-1, Isomaltose  
 2016-45-7, Hexadecyl dimethylammonium chloride 2016-47-9  
 , 1-Tetradecanamine, N,N-dimethyl-, hydrochloride 2016-48-0,  
 Dodecyl dimethylammonium chloride 2634-33-5, 1,  
 2-Benzisothiazolin-3-one

3401-74-9, Didodecyl dimethylammonium chloride

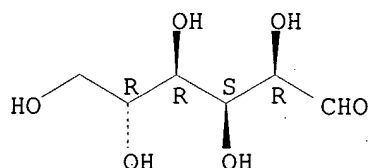
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(systems for controlling plant and cut flower moisture transpiration rates)

RN 50-99-7 HCAPLUS

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

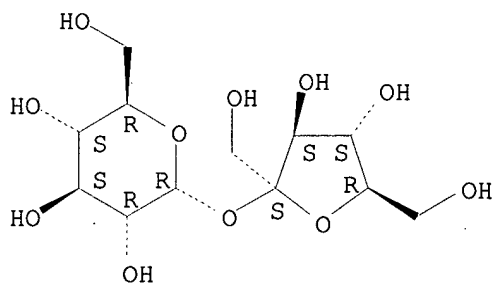
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RN 57-50-1 HCAPLUS

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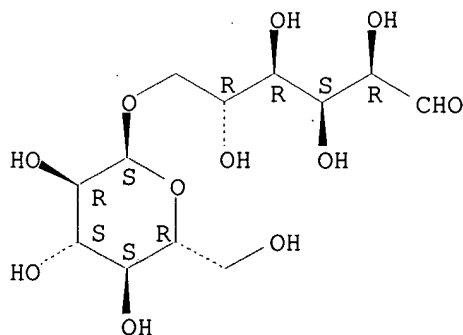
Absolute stereochemistry.



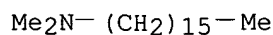
RN 499-40-1 HCAPLUS

CN D-Glucose, 6-O-.alpha.-D-glucopyranosyl- (6CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

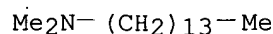


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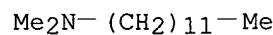
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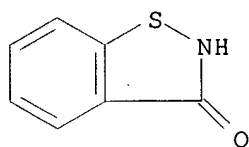
● HCl

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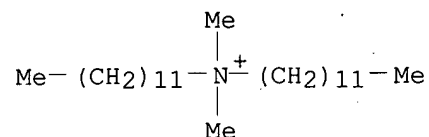


● HCl

RN 2634-33-5 HCAPLUS  
 CN 1,2-Benzisothiazol-3(2H)-one (9CI) (CA INDEX NAME)



RN 3401-74-9 HCAPLUS  
 CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



$\text{Cl}^-$

IT 2682-20-4, 2-Methyl-4-  
 isothiazolin-3-one 26172-55-4,  
 5-Chloro-2-methyl-4-

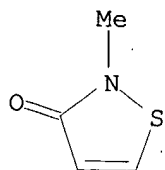
**isothiazolin-3-one**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(systems for controlling plant and cut flower moisture transpiration  
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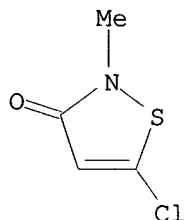
RN 2682-20-4 HCAPLUS

CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)



RN 26172-55-4 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)



L159 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:525853 HCAPLUS

DN 135:118262

TI Systems for controlling plant and flower moisture transpiration rates

IN Hamersky, Mark William; Smith, Steven Daryl

PA Procter + Gamble Company, USA

SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N003-02

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001050855	A1	20010719	WO 2001-US1202	20010112
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 1246525	A1	20021009	EP 2001-903063	20010112
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	US 2002006870	A1	20020117	US 2001-759385	20010312
PRAI	US 2000-176181P	P	20000114		

WO 2001-US1202 W 20010112

OS MARPAT 135:118262

AB The present invention relates to a system for controlling plant and flower moisture transpiration and thereby extending the period of time in which cut flowers can be displayed before senescence produces a flower which has exceeded its aesthetic value. The systems of the present invention comprise two components where the first component is in the form of a soln. applied to the surface of a plant or flower exposed to air and the second component is dissolved in water to form a soln. and into which soln. is placed the plant or flower to be preserved. The first component comprises from about 0.1% to about 20% by wt., of a polymer or copolymer comprising monomers having the formula  $(R_1)_2C:C(R_2)_X$ , where each  $R_1$  is independently hydrogen, C1-C12 alkyl, C1-C12 alkoxy, Ph, substituted Ph, benzyl, substituted benzyl, carbocyclic, heterocyclic, and mixts. thereof;  $R_2$  is hydrogen, halogen, C1-C12 alkyl, C1-C12 alkoxy, Ph, substituted Ph, benzyl, substituted benzyl, carbocyclic, heterocyclic, and mixts. thereof;  $X$  is hydrogen, hydroxyl, halogen,  $-(CH_2)_mCH_2OH$ ,  $-(CH_2)_mCOR$ ,  $-(CH_2)_mCH_2OCOR'$ , where  $R$  is  $-OR'$ ,  $-N(R')_2$ ,  $-(CH_2)_nN(R'')_2$ , and mixts. thereof; each  $R'$  is independently hydrogen, C1-C8 alkyl, C2-C8 hydroxyalkyl,  $-(CH_2)_nN(R'')_2$ , and mixts. thereof; where  $R''$  is independently hydrogen, C1-C4 alkyl, and mixts. thereof; the index  $m$  is from 0 to 6, the index  $n$  is from 2 to 6; and from about 0.01% to about 5% by wt., of a surfactant; and the balance carriers and other adjunct ingredients. The second component comprises from about 0.1% by wt., of a source of energy; from about 5 ppm by wt., of one or more antimicrobials; and the balance carriers and adjunct ingredients. Several different formulations which comprise this system are presented as examples.

ST cut flower preservative system

IT Polymers, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(co-; systems for controlling plant and cut flower moisture transpiration rates)

IT Agrochemical formulations

(solns.; systems for controlling plant and cut flower moisture transpiration rates)

IT Antimicrobial agents

**Buffers**

Cut flower preservation

Preservatives

Surfactants

Transpiration (plant)

(systems for controlling plant and cut flower moisture transpiration rates)

IT 50-99-7, Dextrose, biological studies 57-50-1,

Sucrose, biological studies 64-17-5, Ethanol, biological studies

77-92-9, Citric acid, biological studies

499-40-1, Isomaltose 994-36-5, Sodium

citrate 2016-45-7, Hexadecyl dimethylammonium chloride

2016-47-9, 1-Tetradecanamine, N,N-dimethyl-, hydrochloride

2016-48-0, Dodecyl dimethylammonium chloride 2634-33-5,

1,2-Benzisothiazolin-3-one

2682-20-4, 2-Methyl-4-

isothiazolin-3-one 3401-74-9,

Didodecyl dimethylammonium chloride 5538-94-3, Bardac

LF 80 7173-51-5, Bardac 2250

7758-29-4, Sodium tripolyphosphate 25035-69-2 26172-55-4,

5-Chloro-2-methyl-4-

isothiazolin-3-one 32426-11-2,

Bardac 2050 55965-84-9, Kathon

CG/ICP II 172344-71-7, Miranol Ultra C 32

350690-53-8, Niolone M 50

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(systems for controlling plant and cut flower moisture transpiration rates)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Abbott Lab; WO 9534199 A 1995 HCAPLUS

(2) de Long, C; US 4094845 A 1978

IT 50-99-7, Dextrose, biological studies 57-50-1, Sucrose, biological studies 77-92-9, Citric acid, biological studies 499-40-1, Isomaltose 994-36-5, Sodium citrate 2016-45-7, Hexadecyl dimethylammonium chloride 2016-47-9, 1-Tetradecanamine, N,N-dimethyl-, hydrochloride 2016-48-0, Dodecyl dimethylammonium chloride 2634-33-5, 1, 2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-4-isothiazolin-3-one 3401-74-9, Didodecyl dimethylammonium chloride 5538-94-3, Bardac LF 80 7173-51-5, Bardac 2250 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 32426-11-2, Bardac 2050 55965-84-9, Kathon CG/ICP II 350690-53-8, Niolone M 50

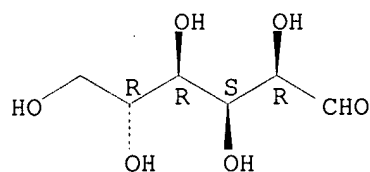
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(systems for controlling plant and cut flower moisture transpiration rates)

RN 50-99-7 HCAPLUS

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

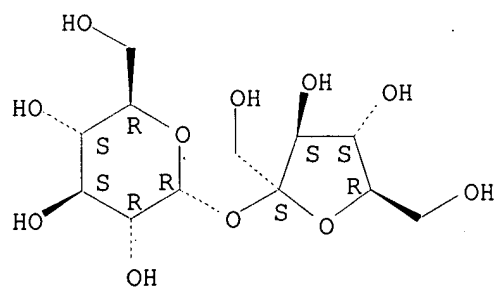
Absolute stereochemistry.



RN 57-50-1 HCAPLUS

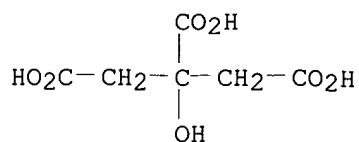
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Absolute stereochemistry.



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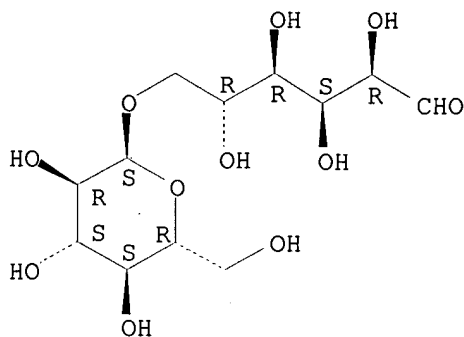
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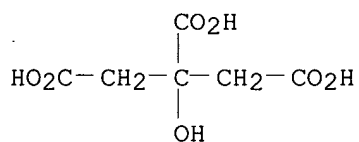
CN D-Glucose, 6-O-.alpha.-D-glucopyranosyl- (6CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 994-36-5 HCAPLUS

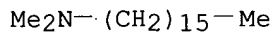
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt (9CI) (CA INDEX NAME)



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RN 2016-45-7 HCAPLUS

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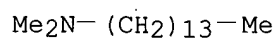


● HCl

RN 2016-47-9 HCAPLUS

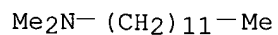
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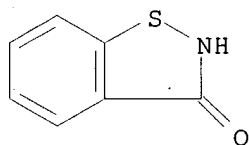
● HCl

RN 2016-48-0 HCAPLUS  
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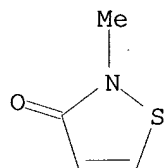


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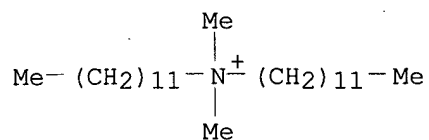
RN 2634-33-5 HCAPLUS  
CN 1,2-Benzisothiazol-3(2H)-one (9CI) (CA INDEX NAME)



RN 2682-20-4 HCAPLUS  
CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)

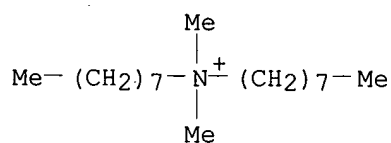


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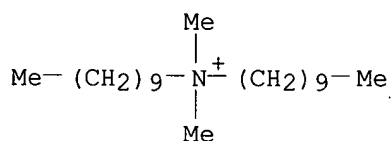


● Cl<sup>-</sup>

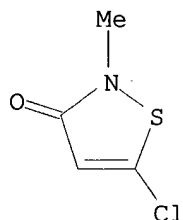
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● Cl<sup>-</sup>

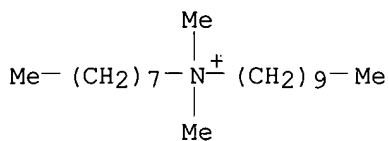
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 CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

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 CN 3(2H)-Isothiazolone, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)



RN 32426-11-2 HCAPLUS  
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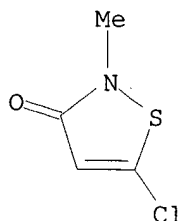
● Cl<sup>-</sup>

RN 55965-84-9 HCAPLUS  
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CRN 26172-55-4

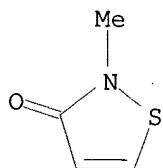
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CM 2

CRN 2682-20-4

CMF C4 H5 N O S



RN 350690-53-8 HCAPLUS

CN Niolone M 50 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L159 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:525851 HCAPLUS

DN 135:118261

TI Vase-added compositions for controlling plant and flower moisture transpiration rates

IN Hamersky, Mark William; Smith, Steven Daryl

PA Procter + Gamble Company, USA

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N003-02

ICS A01N043-16; A01N043-80; A01N033-12; A01N043-80; A01N043-16; A01N033-12

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001050853	A1	20010719	WO 2001-US1200	20010112
W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2001042341	A1	20011122	US 2001-760037	20010112 <--

EP 1246526 A1 20021009 EP 2001-942271 20010112

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI US 2000-176090P P 20000114

WO 2001-US1200 W 20010112

OS MARPAT 135:118261

AB The present invention relates to compns. for controlling plant and flower moisture transpiration and thereby extending the period of time in which cut flowers can be displayed before senescence produces a flower which has exceeded its aesthetic value. The compns. of the present invention comprise: (a) from about 0.1% by wt., of a source of energy: such as **saccharides** or **polysaccharides**; (b) from about 5 ppm by wt., of one or more antimicrobials: preferably selected from **isothiazolinones** and/or quaternary ammonium compds.; (c) from about 1 ppm by wt., of a **buffer**; and (d) the balance carriers and adjunct ingredients.

ST cut flower preservative system

IT Agrochemical formulations

(solns.; vase-added compns. for controlling plant and flower moisture transpiration rates)

IT Antimicrobial agents

**Buffers**

Cut flower preservation

Preservatives

Surfactants

Transpiration (plant)

(vase-added compns. for controlling plant and flower moisture transpiration rates)

IT **Monosaccharides**

**Polysaccharides, biological studies**

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(vase-added compns. for controlling plant and flower moisture transpiration rates)

IT **55965-84-9**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**Kathon CG/ICP II**; vase-added

compns. for controlling plant and flower moisture transpiration rates)

IT **50-99-7, Dextrose, biological studies 57-50-1,**

**Sucrose, biological studies 77-92-9, Citric acid, biological studies 499-40-1, Isomaltose**

**994-36-5, Sodium citrate 2016-45-7,**

Hexadecyl dimethylammonium chloride 2016-47-9 2016-48-0

, Dodecyl dimethylammonium chloride 2634-33-5, 1,

**2-Benzisothiazolin-3-one**

**3401-74-9, Didodecyl dimethylammonium chloride 5538-94-3**

, **Bardac LF 80 7173-51-5,**

**Bardac 2250 7758-29-4, Sodium tripolyphosphate**

**32426-11-2, Bardac 2050 350690-53-8,**

**Niolone M 50**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(vase-added compns. for controlling plant and flower moisture transpiration rates)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Asahi Optical Co Ltd; JP 07187902 A 1995 HCAPLUS

(2) Bottger Kg; DE 1542832 A 1970

(3) Doi, M; HORTSCIENCE 1995, V30(5), P1058 HCAPLUS

(4) Frossard Patrice; FR 2446068 A 1980 HCAPLUS

- (5) Halo Products Close Corp; GB 2189676 A 1987 HCAPLUS
- (6) Hoechst Ag; DE 2344887 A 1975 HCAPLUS
- (7) Knee, M; POSTHARVEST BIOL TECHNOL 2000, V18(3), P227 HCAPLUS
- (8) Law, A; US 4173643 A 1979 HCAPLUS
- (9) Lonza Ag; GB 1442979 A 1976 HCAPLUS
- (10) Showa Denko Kk; JP 49131847 A 1974 HCAPLUS
- (11) van Doorn, W; J APPL BACTER 1990, V68(2), P117 HCAPLUS

IT 55965-84-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(Kathon CG/ICP II; vase-added

comps. for controlling plant and flower moisture transpiration rates)

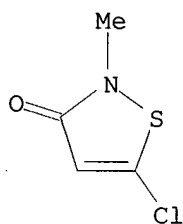
RN 55965-84-9 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (9CI) (CA INDEX NAME)

CM 1

CRN 26172-55-4

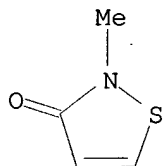
CMF C4 H4 Cl N O S



CM 2

CRN 2682-20-4

CMF C4 H5 N O S



- IT 50-99-7, Dextrose, biological studies 57-50-1, Sucrose, biological studies 77-92-9, Citric acid, biological studies 499-40-1, Isomaltose 994-36-5, Sodium citrate 2016-45-7, Hexadecyl dimethylammonium chloride 2016-47-9 2016-48-0, Dodecyl dimethylammonium chloride 2634-33-5, 1, 2-Benzisothiazolin-3-one 3401-74-9, Didodecyl dimethylammonium chloride 5538-94-3, Bardac LF 80 7173-51-5, Bardac 2250 32426-11-2, Bardac 2050 350690-53-8, Niolone M 50

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

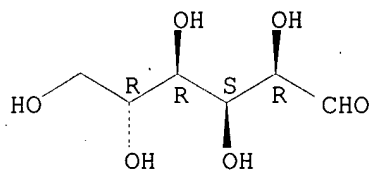
(vase-added comps. for controlling plant and flower moisture

transpiration rates)

RN 50-99-7 HCAPLUS

CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

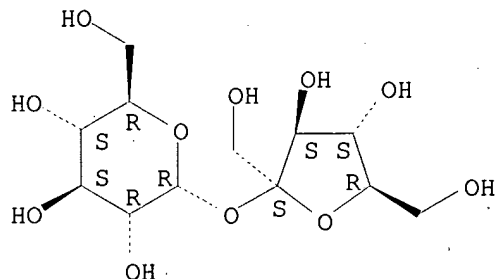
Absolute stereochemistry.



RN 57-50-1 HCAPLUS

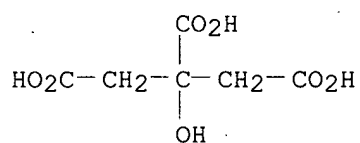
CN .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 77-92-9 HCAPLUS

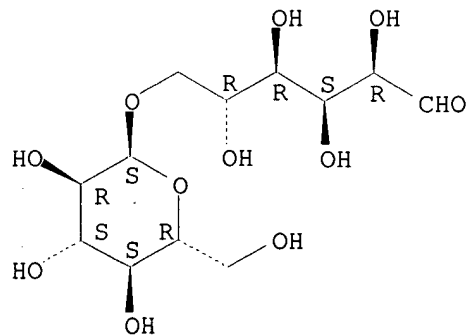
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 499-40-1 HCAPLUS

CN D-Glucose, 6-O-.alpha.-D-glucopyranosyl- (6CI, 9CI) (CA INDEX NAME)

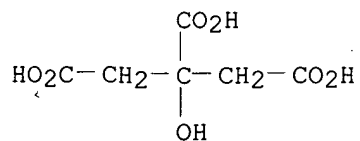
Absolute stereochemistry.



RN 994-36-5 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt (9CI) (CA INDEX NAME)

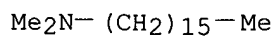
NAME)



●x Na

RN 2016-45-7 HCAPLUS

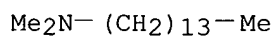
CN 1-Hexadecanamine, N,N-dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 2016-47-9 HCAPLUS

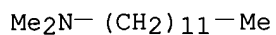
CN 1-Tetradecanamine, N,N-dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 2016-48-0 HCAPLUS

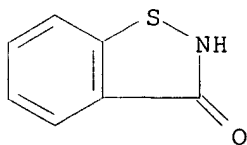
CN 1-Dodecanamine, N,N-dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

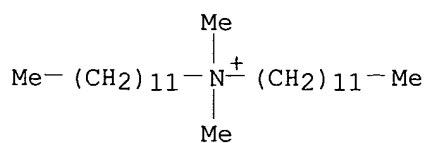
RN 2634-33-5 HCAPLUS

CN 1,2-Benzisothiazol-3(2H)-one (9CI) (CA INDEX NAME)

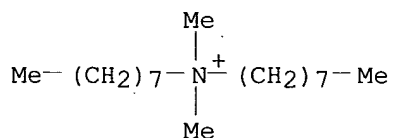


RN 3401-74-9 HCAPLUS

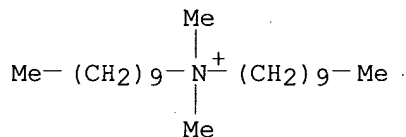
CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

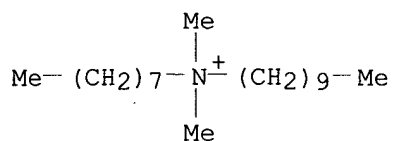
RN 5538-94-3 HCAPLUS  
 CN 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 7173-51-5 HCAPLUS  
 CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 32426-11-2 HCAPLUS  
 CN 1-Decanaminium, N,N-dimethyl-N-octyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 350690-53-8 HCAPLUS  
 CN Niolone M 50 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*



L159 ANSWER 4 OF 4 HCAPLUS. COPYRIGHT 2003 ACS

AN 1998:351492 HCAPLUS

DN 129:83002

TI Aqueous compositions storable without sedimentation and manufacture thereof

IN Dairiki, Keiji; Takabayashi, Ichiro

PA Nippon Soda Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A01N025-04

ICS A01N025-04; A01N025-10; A01N025-30

CC 46-4 (Surface Active Agents and Detergents)

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10147501	A2	19980602	JP 1996-321010	19961115
PRAI	JP 1996-321010		19961115		

AB The title compns. contain org. polymer electrolytes partially sol. in water, electrolytes dissocg. into mono- or divalent ions and having mol. wt. .ltoreq.1000, solid particles, and cationic surfactants. A soln. of 2 parts Newcol 1110 in 5 parts propylene glycol was stirred with DCMU 16.2, SE39 silicone defoamer 0.5, and water 21.2 parts, milled with beads in a sand grinder, treated with a soln. from Rhodopol 23 0.3, **Proxel GXL** 0.1, and water 44.2 parts, 10 parts NaCl, then 0.5 part QTA-12111 cationic surfactant.

ST herbicide aq compn storability; polyelectrolyte herbicide aq compn; electrolyte agrochem aq compn; cationic surfactant agrochem aq compn

IT Dispersing agents

Electrolytes

Herbicides

Polyelectrolytes

(aq. compns. storable without sedimentation and manuf. thereof)

IT Surfactants

(cationic; aq. compns. storable without sedimentation and manuf. thereof)

IT 9002-92-0, Polyethylene glycol lauryl ether

RL: NUU (Other use, unclassified); USES (Uses)

(Newcol 1110; aq. compns. storable without sedimentation and manuf. thereof)

IT 330-54-1, DCMU

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(aq. compns. storable without sedimentation and manuf. thereof)

IT 57-13-6, Urea, uses 63-42-3, Lactose 77-92-9, uses

87-69-4, uses 104-74-5, Newkalgen B 251 123-03-5, Newkalgen B 651P

127-09-3, Sodium acetate 139-07-1, QBA 1211 144-62-7,

Ethanedioic acid, uses 584-08-7, Potassium carbonate 631-61-8,

Ammonium acetate 7447-40-7, Potassium chloride (KCl), uses 7647-14-5,

Sodium chloride, uses 8061-51-6, Newkalgen RX-B

9000-07-1, Carrageenan 9004-32-4, Carboxymethyl

cellulose 9005-38-3, Sodium alginate 9008-63-3, Newkalgen PS-P

10043-01-3, Aluminum sulfate 10108-86-8, QTA 8111 10460-00-1,

Newkalgen B 709 11138-66-2, Rhodopol 23 209122-67-8, QTA 12111

RL: NUU (Other use, unclassified); USES (Uses)

(aq. compns. storable without sedimentation and manuf. thereof)

IT 63-42-3, Lactose 77-92-9, uses 139-07-1, QBA

1211 8061-51-6, Newkalgen RX-B 9000-07-1, Carrageenan

9004-32-4, Carboxymethyl cellulose 9005-38-3, Sodium

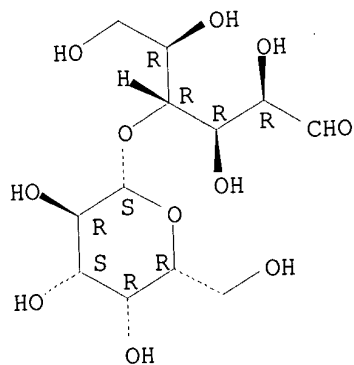
alginate 11138-66-2, Rhodopol 23

RL: NUU (Other use, unclassified); USES (Uses)

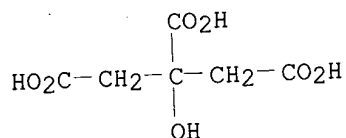
(aq. compns. storable without sedimentation and manuf. thereof)

RN 63-42-3 HCAPLUS  
 CN D-Glucose, 4-O-.beta.-D-galactopyranosyl- (9CI) (CA INDEX NAME)

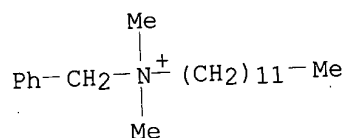
Absolute stereochemistry. Rotation (+).



RN 77-92-9 HCAPLUS  
 CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 139-07-1 HCAPLUS  
 CN Benzenemethanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 8061-51-6 HCAPLUS  
 CN Lignosulfonic acid, sodium salt (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9000-07-1 HCAPLUS  
 CN Carrageenan (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-32-4 HCAPLUS  
 CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

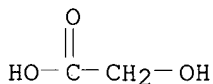
CM 1

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 79-14-1  
CMF C2 H4 O3



RN 9005-38-3 HCAPLUS  
CN Alginic acid, sodium salt (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 11138-66-2 HCAPLUS  
CN Xanthan gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

=> d all hitstr tot 1161

L161 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2003:77528 HCAPLUS

DN 138:126759

TI A shampoo foaming composition which comprises an alkyl ether sulfate, a sorbitan derivative, a betaine, an alkylamido alkylamine, an alkoxyated carboxylic acid, and an organic salt

IN Alvarado, Robert M.; Abbott, Richard A.; Patel, Chaitanya Umedbhai

PA USA

SO U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM A61K007-075

NCL 510119000; 510121000; 510125000; 510466000

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003022799	A1	20030130	US 2001-916133	20010727
PRAI	US 2001-916133		20010727		

AB A foamable, shampoo compn. for cleansing hair comprises: (1) 0.005-5 % a cationic deposition polymer having a cationic charge d. of 0.1-4.0 meq/g; (2) 10-20 % an anionic surfactant which is selected from the group consisting of an alkyl ether sulfate with at least about 2 mol of ethoxylation, and a neutralized alkyl ether sulfate with at least about 2 mol of ethoxylation; and mixts. thereof; (3) 0.5-1.0 % an org. salt of a carboxylic acid; (4) 6-15 % sorbitan deriv.; (5) 3-6 % a zwitterionic surface active compd. which includes quaternized alkyl or substituted alkyl derivs. of N,N-dimethylglycine; (6) 0.25-5 % an amphoteric surfactant; (7) 0.75-1.5% an alkoxyated carboxylic acid; (8) 0.1-5 % a silicone copolyol; (9) optionally an aerosol propellant; and (10) water. For example, a shampoo contained deionized water 59.0784, Polyquaternium 10 (93% active) 0.0096, Na trideceth sulfate (30 % active) 13.104, PEG 80 sorbitan laurate (72 % active) 6.384, cocamidopropyl hydroxysultaine (44 % active) 3.8976, disodium lauramphoacetate (30 % active) 3.36, PEG-150 distearate (100 % active) 1.008, Na laureth-13 carboxylate (67 % active) 0.672, glycerin (95 % active) 1.2, liq. **citric acid**

(50 % active) 0.336, Na benzoate, (100 % active) 0.48, Polysorbate 20 (97 % active) 4.8, dimethicone copolyol (100 % active) 0.96, fragrances 0.48 , **methylchloroisothiazolinone/methylisothiazolinone** 0.048, DMDM hydantoin (55 % active), and propellant (isobutane/propane) 4 %.

ST shampoo cationic cellulose surfactant silicone copolyol

IT Surfactants  
(amphoteric; foaming shampoos contg. various surfactants and silicone copoyols)

IT Surfactants  
(anionic; foaming shampoos contg. various surfactants and silicone copoyols)

IT Sulfobetaines  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cocamidopropyl; foaming shampoos contg. various surfactants and silicone copoyols)

IT Polyoxyalkylenes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen polysiloxane-; foaming shampoos contg. various surfactants and silicone copoyols)

IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-; foaming shampoos contg. various surfactants and silicone copoyols)

IT Shampoos  
(foaming shampoos contg. various surfactants and silicone copoyols)

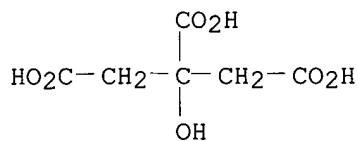
IT Surfactants  
(zwitterionic; foaming shampoos contg. various surfactants and silicone copoyols)

IT 56-81-5, Glycerin, biological studies **77-92-9, Citric Acid**, biological studies 532-32-1, Sodium Benzoate 9005-08-7, Polyethylene glycol distearate 9005-64-5, Polysorbate 20 9062-73-1, Polyethylene glycol sorbitan laurate 33939-64-9, Sodium Laureth-13 Carboxylate 54116-08-4, Sodium Trideceth Sulfate 68929-04-4 **81859-24-7, Polyquaternium 10**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(foaming shampoos contg. various surfactants and silicone copoyols)

IT **77-92-9, Citric Acid**, biological studies **81859-24-7, Polyquaternium 10**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(foaming shampoos contg. various surfactants and silicone copoyols)

RN 77-92-9 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 81859-24-7 HCAPLUS

CN Cellulose, 2-hydroxyethyl 2-[2-hydroxy-3-(trimethylammonio)propoxy]ethyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride (9CI) (CA INDEX NAME)

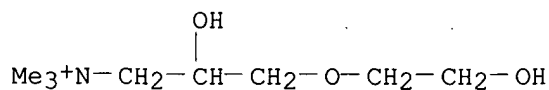
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CRN 170553-71-6

CMF C8 H20 N O3 . x C6 H16 N O2 . x C2 H6 O2 . x Unspecified

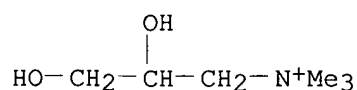
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CRN 170344-46-4  
CMF C8 H20 N O3



CM 3

CRN 44814-66-6  
CMF C6 H16 N O2



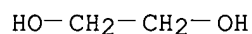
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CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 107-21-1  
CMF C2 H6 O2



L161 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:556040 HCAPLUS

DN 137:106090

TI Multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential determination of white blood cells

IN Crews, Harold Richardson; Carter, James Harrison, II; Elliot, Michael Norman

PA USA

SO U.S. Pat. Appl. Publ., 19 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM G01N033-48

ICS G01N033-53; G01N021-75

NCL 436010000

CC 9-16 (Biochemical Methods)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002098589	A1	20020725	US 2001-766372	20010119
PRAI	US 2001-766372		20010119		
AB	A novel reagent system for use with automated and semi-automated hematomol.				

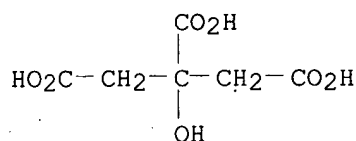
analyzers including an essentially isotonic blood dilg. reagent, a blood cell lysing and Hb conversion reagent, and a second lysing reagent for differentiating white blood cells into classes by size and functional characteristics. The diluent reagent enhances properties for counting and sizing blood specimens, while stabilizing cellular vol. and cellular integrity for many hours. The blood cell lysing reagent removes red blood cells and enables subsequent enumeration of white blood cells and simultaneous detn. of Hb without use of the toxic cyanide anion. The third lysing reagent and a companion quenching differentiates blood cells into classes by size and functional characteristics, based on d.c. impedance vol., cond./opacity and light scatter measurements. The companion quenching reagent adjusts pH and cond. of the final measurement soln. to match the analyzer system requirements. Novel methods for use of the reagents with automated and semi-automated hematol. analyzers are also provided.

- ST reagent system enumeration erythrocyte white blood cell thrombocyte
- IT Functional groups
  - (Dodecyl; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Analytical apparatus
  - (Hematol.; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Functional groups
  - (Hexadecyl; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Reagents
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (Isotonic blood dilg.; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Reagents
  - RL: ARU (Analytical role, unclassified); ANST (Analytical study)
  - (Lysing; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Reagents
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (Quench; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Reagents
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (Stromatolyzing; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Functional groups
  - (Tetradecyl; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Ammonium halides
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
  - (Trialkylammonium halide salts; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Electric impedance
  - (d.c.; multi-purpose reagent system and method for enumeration of red

blood cells, white blood cells and thrombocytes and differential detn.  
of white blood cells)

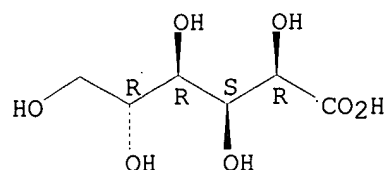
- IT Alkyl groups
- Anesthetics
- Antibacterial agents
- Blood
- Blood analysis
- Blood cell
- Chelating agents
- Composition
- Concentration (condition)
- Cytolysis
- Dilution
- Electric conductivity
- Erythrocyte
- Hemolysis
- Interface
- Leukocyte
- Light scattering
- Lymphocyte
- Mixtures
- Opacity
- Optical conductivity
- Osmolarity
- Platelet (blood)
- Solutions
- Stabilizing agents
- Test kits
- Volume
- pH
  - (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Hemoglobins
  - RL: ANT (Analyte); ANST (Analytical study)
    - (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Reagents
  - RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
    - (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Alkali metal salts
  - Quaternary ammonium compounds, biological studies**
  - Salts, biological studies
  - Saponins
    - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
      - (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT Hematopoietic precursor cell
  - (myeloid; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT **Quaternary ammonium compounds, biological studies**
  - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
    - (tetraalkyl, halides; multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)

- IT 57-12-5, Cyanide anion, analysis  
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
 (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT 51-05-8, Procaine hydrochloride **77-92-9, Citric acid**, biological studies 79-11-8, biological studies 79-14-1, 2-Hydroxyacetic acid, biological studies 93-58-3, Methyl benzoate 93-89-0, Ethyl benzoate 94-13-3, Propyl paraben 99-76-3, Methyl paraben 110-94-1, Glutaric acid 120-47-8, Ethyl paraben 144-49-0, 473-81-4, Glyceric acid **526-95-4**, Gluconic acid 1310-73-2, Sodium hydroxide, biological studies 2150-47-2, Methyl 2,4-dihydroxybenzoate 2315-68-6, Propyl benzoate 2386-54-1, 1-Butanesulfonic acid sodium salt **2682-20-4, Proclin 150** 4143-00-4, Ethyl 2,4-dihydroxybenzoate 6381-92-6, Disodium EDTA dihydrate 7365-45-9, HEPES 7440-44-0D, Carbon, compds. 7447-40-7, Potassium chloride, biological studies 7631-99-4, Sodium nitrate, biological studies 7646-93-7, Potassium hydrogen sulfate 7647-01-0, Hydrochloric acid, biological studies 7647-14-5, Sodium chloride, biological studies 7681-38-1, Sodium hydrogen sulfate 7757-79-1, Potassium nitrate, biological studies 7757-82-6, Sodium sulfate, biological studies 7778-80-5, Potassium sulfate, biological studies 7790-62-7, Potassium pyrosulfate 13870-29-6, Sodium pyrosulfate 30007-47-7, Bronidox-L 37622-41-6 78491-02-8, Germall II 85006-12-8D, halide salt  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- IT **77-92-9, Citric acid**, biological studies  
**526-95-4**, Gluconic acid **2682-20-4, Proclin 150**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (multi-purpose reagent system and method for enumeration of red blood cells, white blood cells and thrombocytes and differential detn. of white blood cells)
- RN 77-92-9 HCAPLUS  
 CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 526-95-4 HCAPLUS  
 CN D-Gluconic acid (9CI) (CA INDEX NAME)

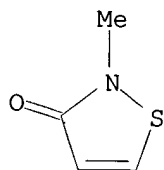
Absolute stereochemistry.



RN 2682-20-4 HCAPLUS



CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)



L161 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:90519 HCAPLUS

DN 136:139608

TI Shampoo compositions with cationic polymers

IN Royce, Douglas Allan; Wells, Robert Lee; Johnson, Eric Scott; Taylor, Jacob Daniel; Nakamura, Kiichiro; Yang, Jian-Zhong

PA USA

SO U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of U.S. Ser. No. 662,084.  
CODEN: USXXCO

DT Patent

LA English

IC ICM A61K007-11

ICS A61K007-075

NCL 424070110

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002012646	A1	20020131	US 2001-853227	20010511
	WO 2002022091	A2	20020321	WO 2001-US25985	20010820
	WO 2002022091	A3	20020613		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2001086559	A5	20020326	AU 2001-86559	20010820
PRAI	US 1997-852166	A2	19970506		
	US 2000-662084	A2	20000914		
	US 2001-853227	A	20010511		
	WO 2001-US25985	W	20010820		
AB	Hair conditioning shampoo compns. comprise: (a) about 5-50%, by wt., of a surfactant component selected from the group consisting of anionic surfactants, amphoteric surfactants, or a combination of anionic and amphoteric or zwitterionic surfactants where the amphoteric surfactants are anionic or zwitterionic at the pH of the compn.; (b) about 0.01-5%, by wt., of a water sol., org., cationic polymer hair conditioning agent having a cationic charge d. of about 0.1-1.2 meq/g and a mol. wt. >600,000; and (c) an aq. carrier. For example, a shampoo compn. contained ammonium laureth sulfate 10.00%, ammonium lauryl sulfate 6.00%, cocamide MEA 0.80%, cetyl alc. 0.90%, ethylene glycol distearate 1.50%, dimethicone Viscasil 330,000 1.35%, Polyquaternium-10 0.50%, Polyox PEG7M 0.10%, Puresyn 6 0.30%, perfume 0.50%, <b>citric acid</b> 0.04%, <b>sodium citrate</b> dihydrate 0.3972%, disodium EDTA 0.0993%, Kathon 0.0005%, sodium benzoate 0.25%, sodium chloride 0-3%, ammonium xylene sulfonate 0-3%, and water up to 100%.				

ST cationic polymer surfactant conditioning antidandruff shampoo  
IT **Quaternary ammonium compounds, biological studies**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(C12-30 alkyltrimethyl, **chlorides**; shampoo compns. with cationic polymers)  
IT Surfactants  
(amphoteric; shampoo compns. with cationic polymers)  
IT Surfactants  
(anionic; shampoo compns. with cationic polymers)  
IT Shampoos  
(antidandruff; shampoo compns. with cationic polymers)  
IT Polyelectrolytes  
(cationic; shampoo compns. with cationic polymers)  
IT **Polysaccharides, biological studies**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cationic; shampoo compns. with cationic polymers)  
IT Aggregates  
(coacervates; shampoo compns. with cationic polymers)  
IT Amides, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(coco, N-(hydroxyethyl); shampoo compns. with cationic polymers)  
IT Shampoos  
(conditioning; shampoo compns. with cationic polymers)  
IT **Quaternary ammonium compounds, biological studies**  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(diallyl-contg.; shampoo compns. with cationic polymers)  
IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(dicarboxylic, esters; shampoo compns. with cationic polymers)  
IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(fatty, C12-30; shampoo compns. with cationic polymers)  
IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(fatty, esters, alkyl and alkenyl; shampoo compns. with cationic polymers)  
IT Esters, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(fatty; shampoo compns. with cationic polymers)  
IT Polymers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(imidazolium group-contg.; shampoo compns. with cationic polymers)  
IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyhydric, esters; shampoo compns. with cationic polymers)  
IT Pyridinium compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polymers; shampoo compns. with cationic polymers)  
IT Diglycerides  
Esters, biological studies  
Glycerides, biological studies  
Hydrocarbon oils  
Monoglycerides  
Polyoxyalkylenes, biological studies  
Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(shampoo compns. with cationic polymers)  
IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(tricarboxylic acids, esters; shampoo compns. with cationic polymers)  
IT Surfactants  
(zwitterionic; shampoo compns. with cationic polymers)  
IT **81859-24-7, Polyquaternium-10**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (UCARE Polymer LR 30M; shampoo compns. with cationic polymers)

IT 7704-34-9, Sulfur, biological studies 29468-20-0D, Pyridinethione, salts  
 56093-45-9, Selenium sulfide 65277-42-1, Ketoconazole  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (antidandruff agent; shampoo compns. with cationic polymers)

IT 9000-30-0, Guar gum 9004-34-6D, Cellulose,  
**ethers 9005-25-8**, Starch, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cationic; shampoo compns. with cationic polymers)

IT 77-92-9, **Citric Acid**, biological studies  
 79-06-1D, Acrylamide, polymers with allylammonium salts 79-10-7D,  
 Acrylic acid, esters, polymers 79-41-4D, Methacrylic acid, esters,  
 polymers 88-12-0D, 1-Vinyl-2-pyrrolidone, polymers with ammonium salts  
 112-92-5, Stearyl alcohol 139-33-3, Disodium EDTA 532-32-1, Sodium  
 Benzoate 616-45-5D, Pyrrolidone, quaternized derivs., polymers  
 2235-54-3, Ammonium Lauryl Sulfate **6132-04-3, Sodium**  
**Citrate** Dihydrate 7647-14-5, Sodium Chloride, biological studies  
 9006-65-9, Dimethicone 9016-00-6, Polydimethylsiloxane  
**17301-53-0**, Behenyl trimethylammonium chloride 25189-70-2,  
 Puresyn 6 25322-68-3, PEG 7M 26447-10-9, Ammonium Xylene Sulfonate  
 30581-59-0 31900-57-9, Polydimethylsiloxane 32612-48-9, Ammonium  
 Laureth Sulfate 36574-66-0D, N-coco acyl derivs. 36653-82-4, Cetyl  
 alcohol 45534-45-0D, salts, polymers with vinylpyrrolidones  
 48042-45-1D, Dimethyldiallylammonium, salts, polymers with acrylamides  
**55965-84-9** 156028-14-7, Sodium Lauroamphoacetate  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (shampoo compns. with cationic polymers)

IT 627-83-8, Ethylene glycol distearate  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (suspending agent; shampoo compns. with cationic polymers)

IT **81859-24-7**, Polyquaternium-10  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (UCARE Polymer LR 30M; shampoo compns. with cationic polymers)

RN 81859-24-7 HCAPLUS

CN Cellulose, 2-hydroxyethyl 2-[2-hydroxy-3-(trimethylammonio)propoxy]ethyl  
 2-hydroxy-3-(trimethylammonio)propyl ether, chloride (9CI) (CA INDEX  
 NAME)

CM 1

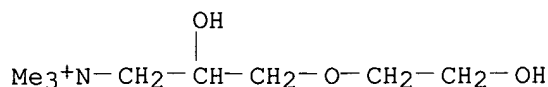
CRN 170553-71-6

CMF C8 H20 N O3 . x C6 H16 N O2 . x C2 H6 O2 . x Unspecified

CM 2

CRN 170344-46-4

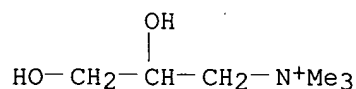
CMF C8 H20 N O3



CM 3

CRN 44814-66-6

CMF C6 H16 N O2



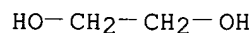
CM 4

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 107-21-1  
 CMF C2 H6 O2



IT 9000-30-0, Guar gum 9004-34-6D, Cellulose,  
 ethers 9005-25-8, Starch, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cationic; shampoo compns. with cationic polymers)

RN 9000-30-0 HCAPLUS

CN Guar gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-34-6 HCAPLUS

CN Cellulose (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9005-25-8 HCAPLUS

CN Starch (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 77-92-9, Citric Acid, biological studies

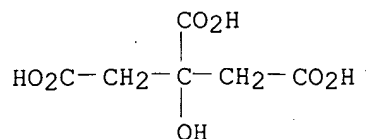
6132-04-3, Sodium Citrate Dihydrate

17301-53-0, Behenyl trimethylammonium chloride 55965-84-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (shampoo compns. with cationic polymers)

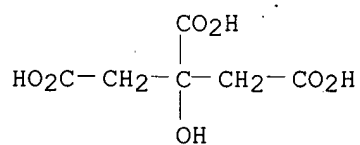
RN 77-92-9 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 6132-04-3 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate  
 (9CI) (CA INDEX NAME)

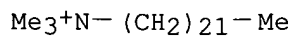


●3 Na

●2 H<sub>2</sub>O

RN 17301-53-0 HCAPLUS

CN 1-Docosanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

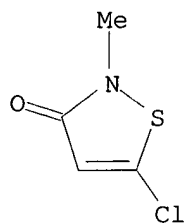
RN 55965-84-9 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (9CI) (CA INDEX NAME)

CM 1

CRN 26172-55-4

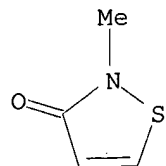
CMF C4 H4 Cl N O S



CM 2

CRN 2682-20-4

CMF C4 H5 N O S



L161 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:89885 HCAPLUS

DN 136:156488

TI Medical residue treatment compositions containing detergents

IN Whiteley, Reginald Keith

PA Australia

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61L002-16

ICS A61L002-18; A01N025-02

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002007789	A1	20020131	WO 2001-AU888	20010720
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
	RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,				
	UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI AU 2000-8932 A 20000721

AB The present invention relates to improved cleaning compns. and new methods for treating medical residues such as those remaining on surgical devices and appliances after use. The medical residue treatment compns. of the invention include: 1 surfactant, 1 solvent, 1 co-solvent, 1 nitrogen-contg. biocide, and at least 1 org. chelating agent. Thus, a compn. contained water 72.0, dodecylamine-HI 7.5, ethoxylated lauryl alc. 5.0, N-methylpyrrolidone 7.0, ethyldiglycol 7.0, and lithium ethylenediaminetetraacetate 1.5%.

ST detergent medical residue treatment

IT Alcohols, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(C1-6; medical residue treatment compn. contg. detergents)

IT Alcohols, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(C9-11, ethoxylated, Dobanol 91-6; medical residue treatment compn. contg. detergents)

IT **Polysaccharides, biological studies**

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkyl ethers; medical residue treatment compn. contg. detergents)

IT Sulfonic acids, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkylarene, lithium salts; medical residue treatment compn. contg. detergents)

IT **Quaternary ammonium compounds, biological studies**

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkylbenzylidimethyl, chlorides; medical residue treatment compn. contg. detergents)

IT Alcohols, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(aralkyl; medical residue treatment compn. contg. detergents)

IT Solvents

(cosolvents; medical residue treatment compn. contg. detergents)

IT Disinfectants

- (detergent; medical residue treatment compn. contg. detergents)
- IT **Quaternary ammonium compounds, biological studies**  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (dialkyldimethyl, **chlorides**; medical residue treatment compn. contg. detergents)
- IT Detergents  
 (disinfectant; medical residue treatment compn. contg. detergents)
- IT Detergents  
 (enzyme-contg.; medical residue treatment compn. contg. detergents)
- IT Amines, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (ethoxylated; medical residue treatment compn. contg. detergents)
- IT Amines, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (halides; medical residue treatment compn. contg. detergents)
- IT Biocides  
 Detergents  
 Disinfectants  
 Medical goods  
 Solvents  
 Surfactants  
 (medical residue treatment compn. contg. detergents)
- IT Amine oxides  
 Chelates  
 Esters, biological studies  
 Glycols, biological studies  
 Ketones, biological studies  
**Quaternary ammonium compounds, biological studies**  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (medical residue treatment compn. contg. detergents)
- IT Detergents  
 Surfactants  
 (nonionic; medical residue treatment compn. contg. detergents)
- IT Alcohols, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (primary; medical residue treatment compn. contg. detergents)
- IT Carboxylic acids, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (salts, lithium salts; medical residue treatment compn. contg. detergents)
- IT Alcohols, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (secondary; medical residue treatment compn. contg. detergents)
- IT 52-51-7 55-56-1D, Chlorhexidine, salts 56-95-1, Chlorhexidine diacetate **57-09-0**, CTAB 57-13-6, Urea, biological studies  
 78-96-6, Isopropanolamine 102-71-6, Triethanolamine, biological studies  
 102-96-5, .beta.-Nitrostyrene 103-64-0, .beta.-Bromostyrene 111-42-2, Diethanolamine, biological studies 111-90-0 112-27-6, Triethylene glycol **121-54-0**, Hyamine 1622 140-72-7, CPB 141-43-5, Monoethanolamine, biological studies 546-89-4, Lithium acetate 553-54-8, Lithium benzoate 554-13-2, Lithium carbonate 616-45-5, Pyrrolidone 623-84-7, Propylene acetate 629-14-1, Ethylene glycol diethyl ether 637-39-8, Triethanolamine hydrochloride 685-91-6 867-55-0, Lithium lactate 868-17-7, Lithium tartrate 872-50-4, N-Methylpyrrolidone, biological studies **919-16-4**, Lithium citrate 929-73-7, Dodecylamine hydrochloride 1310-65-2, Lithium hydroxide 1643-20-5, Lauryldimethylamine oxide **2016-48-0**, DimethylDodecylamine hydrochloride 2044-56-6, Lithium lauryl sulfate 2044-64-6 2349-55-5, Pyridinium, 1-hexadecyl-, iodide **2682-20-4**, **2-Methyl-4-isothiazolin-3-one** 5006-97-3, Lithium bicarbonate 5977-14-0, Acetylacetamide 6317-18-6 9002-92-0, Polyethylene glycol lauryl ether 9036-19-5, Polyethylene glycol octyl phenyl ether 10377-52-3, Lithium

phosphate 10543-57-4, Tetraacetythylenediamine 13234-23-6, Lithium methacrylate 15804-33-8, Lithium triphosphate **18472-51-0**, Chlorhexidine digluconate 25265-71-8, Dipropylene glycol **25629-58-7**, 5-Chloro-4-**isothiazolin-3-one** 34099-97-3 34590-94-8, Dipropylene glycol methyl ether 39663-84-8, Lithium glycolate 51013-18-4, MethylPyrrolidone 54300-24-2, Monoethanolamine acetate 56982-63-9 61146-43-8, Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, lithium salt 94030-93-0 **94138-94-0**, Dilithium citrate 94395-82-1, Teric 305 102815-14-5 105644-10-8 130453-70-2, Berol 522 158549-85-0 165123-66-0  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (medical residue treatment compn. contg. detergents)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Reckitt & Colman Inc; WO 9928428 1999 HCAPLUS
- (2) Reckitt & Colman Inc; WO 9953010 1999 HCAPLUS
- (3) Reginald, K; AU 7630791 1992
- (4) The Clorox Company; WO 9960852 1999 HCAPLUS

IT **57-09-0**, CTAB **121-54-0**, Hyamine 1622 **919-16-4**, Lithium citrate **2016-48-0**, DimethylDodecylamine hydrochloride **2682-20-4**, 2-Methyl-4-

**isothiazolin-3-one** **18472-51-0**, Chlorhexidine digluconate **25629-58-7**, 5-Chloro-4-**isothiazolin-3-one** **94138-94-0**, Dilithium citrate  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (medical residue treatment compn. contg. detergents)

RN 57-09-0 HCAPLUS

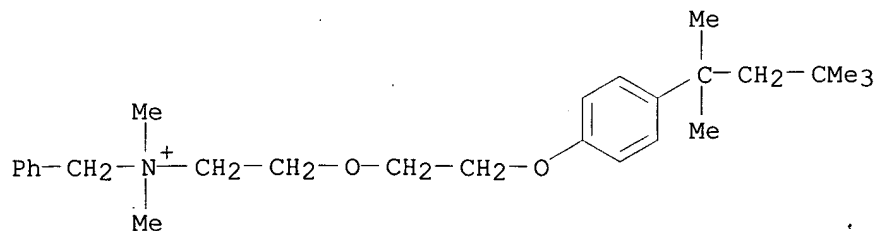
CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

Me<sub>3</sub><sup>+</sup>N-(CH<sub>2</sub>)<sub>15</sub>-Me

● Br<sup>-</sup>

RN 121-54-0 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride (9CI) (CA INDEX NAME)

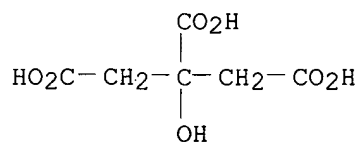


● Cl<sup>-</sup>

RN 919-16-4 HCAPLUS

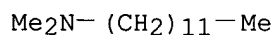
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trilithium salt (9CI) (CA INDEX NAME)





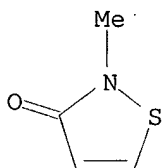
● 3 Li

RN 2016-48-0 HCAPLUS  
 CN 1-Dodecanamine, N,N-dimethyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 2682-20-4 HCAPLUS  
 CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)

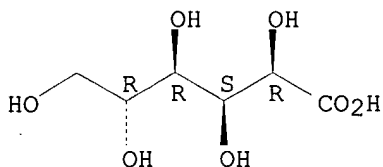


RN 18472-51-0 HCAPLUS  
 CN D-Gluconic acid, compd. with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

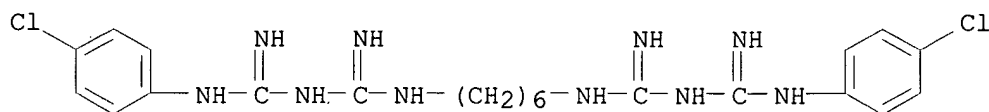
CRN 526-95-4  
 CMF C6 H12 O7

Absolute stereochemistry.



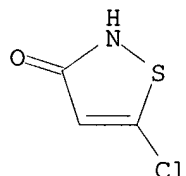
CM 2

CRN 55-56-1  
 CMF C22 H30 Cl2 N10



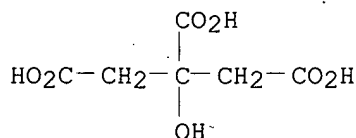
RN 25629-58-7 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro- (9CI) (CA INDEX NAME)



RN 94138-94-0 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, dilithium salt (9CI) (CA INDEX NAME)



● 2 Li

L161 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2001:578597 HCAPLUS

DN 135:124156

TI Bactericide combinations in detergents

IN Elsmore, Richard; Houghton, Mark Phillip

PA Robert McBride Ltd., UK

SO Brit. UK Pat. Appl., 53 pp.

CODEN: BAXXDU

DT Patent

LA English

IC ICM C11D003-48

CC 46-6 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2354771	A1	20010404	GB 1999-23253	19991001
PRAI	GB 1999-23253		19991001		

AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric surfactant which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, **citric acid** 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing redn. activity after contact 2.

ST bactericide surfactant detergent

IT Balsams

- RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(Canada; bactericide combinations in detergents)
- IT Amine oxides  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C10-16-alkyldimethyl; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C12-14-alkyltrimethyl, **chlorides**; bactericide combinations  
in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C12-18-alkyl; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C14-18-alkyl; bactericide combinations in detergents)
- IT Alcohols, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C16-18, ethoxylated; bactericide combinations in detergents)
- IT Fatty acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C16-18, phentachlorophenyl esters; bactericide combinations in  
detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C16-18-unsatd. alkyl; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C8-10-alkyl; bactericide combinations in detergents)
- IT Fatty acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C8-10; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(C8-18-alkyl; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(N-C10-18-alkyltrimethylenediamines, reaction products with  
chloroacetic acid; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(N-coco alkyltrimethylenediamines; bactericide combinations in  
detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(N-tallow alkyltrimethylenediamines, ethoxylated; bactericide  
combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)

- (N-tallow alkyltrimethylenediamines; bactericide combinations in detergents)
- IT Balsams  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(Peru; bactericide combinations in detergents)
- IT Resins  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(Siam gum benzoin; bactericide combinations in detergents)
- IT Anthracene oil  
(acid ext. for bactericide combinations in detergents)
- IT Pimenta  
(acris; ext. for bactericide combinations in detergents)
- IT Carboxylic acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(aliph., salts; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(alkylbenzyl dimethyl, **chlorides**; bactericide combinations in detergents)
- IT Surfactants  
(amphoteric; bactericide combinations in detergents)
- IT Surfactants  
(anionic; bactericide combinations in detergents)
- IT Antibacterial agents  
Creosote  
(bactericide combinations in detergents)
- IT Asphalt  
Coconut oil  
Creosote oil  
Epoxy resins, uses  
Hydrocarbon oils  
Paraffin oils  
Pyrethrins  
Tar acids  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(benzyl-C12-14-alkyldimethyl, **chlorides**; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(benzyl-C12-16-alkyldimethyl, **chlorides**; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(benzyl-C12-18-alkyldimethyl, **chlorides**; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(benzyl-C12-18-alkyldimethyl, salts with 1,2-benzisothiazol-3(2H)-one  
1,1-dioxide (1:1); bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(benzyl-C16-18-alkyldimethyl, **chlorides**; bactericide combinations in detergents)

IT Almond (*Prunus amygdalus*)  
(bitter; ext. for bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(cade; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(cassia; bactericide combinations in detergents)

IT Secretions (external)  
(castoreum; bactericide combinations in detergents)

IT Surfactants  
(cationic; bactericide combinations in detergents)

IT Essential oils  
RL: MOA (Modifier or additive use); USES (Uses)  
(cedar; for bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(clove; bactericide combinations in detergents)

IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(coco alkyl, acetates; bactericide combinations in detergents)

IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(coco alkyl; bactericide combinations in detergents)

IT Amines, uses  
Betaines  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(coco alkyldimethyl; bactericide combinations in detergents)

IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(coco alkyltrimethyl, **chlorides**; bactericide combinations in detergents)

IT Fatty acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(coco, reaction products with aminoethylaminoethanol, quaternized; bactericide combinations in detergents)

IT Amine oxides  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(cocoalkyldimethyl; bactericide combinations in detergents)

IT Balsams  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(copaiba; bactericide combinations in detergents)

IT Naphthenic acids, uses  
Resin acids  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(copper salts; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

- BIOL (Biological study); USES (Uses)  
(cypress; bactericide combinations in detergents)
- IT Polysulfides  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(di-tert-nonyl; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(dialkyldimethyl, **chlorides**; bactericide combinations in detergents)
- IT **Quaternary ammonium compounds, uses**  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(dicoco alkyldimethyl, **chlorides**; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(dimethyltallow alkyl; bactericide combinations in detergents)
- IT Coal tar  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(distillate; bactericide combinations in detergents)
- IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(eucalyptus; bactericide combinations in detergents)
- IT Abelsonia moschatus  
Allspice (Pimenta dioica)  
Amyris balsamifera  
Angelica archangelica  
Aniba rosaeodora  
Anise  
Artemisia  
Artemisia maritima  
Camphor tree (Cinnamomum camphora)  
Capsicum frutescens  
Caraway (Carum carvi)  
Chrysanthemum cinerariaefolium  
Cinnamomum zeylanicum  
Cistus ladanifer  
Citrus medica  
Coriander  
Cumin  
Cymbopogon citratus  
Cymbopogon nardus  
Cymbopogon winterianus  
Dill  
Dipteryx odorata  
Evernia furfuracea  
Evernia prunastri  
Fennel (Foeniculum vulgare)  
Fennel (Foeniculum vulgare vulgare)  
Fir (Abies balsamea)  
Gaultheria procumbens  
Ginger  
Grapefruit  
Guaiacum officinale  
Hay  
Hedeoma pulegioides  
Helichrysum stoechas  
Iris pseudacorus

Jasmine (*Jasminum grandiflorum*)  
 Juniper (*Juniperus communis*)  
 Juniper (*Juniperus mexicana*)  
 Juniper (*Juniperus virginiana*)  
 Laurus nobilis  
 Lavender (*Lavandula hybrida*)  
 Lavender (*Lavandula spica*)  
 Lime (*Citrus aurantifolia*)  
 Mandarin orange  
 Melaleuca alternifolia  
 Mentha arvensis piperascens  
 Musks  
 Myristica fragrans  
 Narcissus juncifolius  
 Parsley (*Petroselinum crispum*)  
 Patchouli  
 Peppermint (*Mentha piperita*)  
 Pimenta racemosa  
 Pine (*Pinus*)  
 Pine (*Pinus pumila*)  
 Pine (*Pinus sylvestris*)  
 Propolis  
 Rose (*Rosa damascena*)  
 Rosemary  
 Sage (*Salvia sclarea*)  
 Sandalwood (*Santalum album*)  
 Spanish marjoram  
 Spartium junceum  
 Spearmint (*Mentha spicata*)  
 St.-John's-wort (*Hypericum perforatum*)  
 Star anise (*Illicium verum*)  
 Thyme (*Thymus capitatus*)  
 Vaccinium myrtillus  
 Valerian (*Valeriana*)  
 Vetiveria zizanioides  
 Viola odorata  
 Wheat  
 Ylang-ylang (*Cananga odorata*)  
 (ext. for bactericide combinations in detergents)  
 IT Bergamot (*Citrus bergamia*)  
 Birch (*Betula lenta*)  
 Birch (*Betula pendula*)  
 Ocimum basilicum  
 Savory (*Satureja hortensis*)  
 (ext.; bactericide combinations in detergents)  
 IT Essential oils  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (geranium; bactericide combinations in detergents)  
 IT Amines, uses  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (hydrogenated tallow alkyl, acetates; bactericide combinations in  
 detergents)  
 IT Resin acids  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (hydrogenated, Me esters; bactericide combinations in detergents)  
 IT Collagens, uses  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (hydrolyzates, [3-(dodecyldimethylammonio)-2-hydroxypropyl], chlorides;  
 bactericide combinations in detergents)

IT Naphthenic acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(iron salts; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(lavender; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(lemon, extn. residues; bactericide combinations in detergents)

IT Detergents  
(liq.; bactericide combinations in detergents)

IT Fats and Glyceridic oils, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(margosa; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(mint, Mentha; bactericide combinations in detergents)

IT Perfumes  
(myrrh; ext. for bactericide combinations in detergents)

IT Surfactants  
(nonionic; bactericide combinations in detergents)

IT Resins  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(olibanum; bactericide combinations in detergents)

IT Resins  
(opopanax; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(peppermint; bactericide combinations in detergents)

IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(pine; bactericide combinations in detergents)

IT Fatty acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(potassium salts; bactericide combinations in detergents)

IT Protein hydrolyzates  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(reaction products with undecenoyl chloride, salts; bactericide combinations in detergents)

IT Pelargonium graveolens  
(sapond. ext. for bactericide combinations in detergents)

IT Orange  
(sour; ext. for bactericide combinations in detergents)

IT Balsams  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(storax; bactericide combinations in detergents)

IT Orange  
(sweet, Valencia; ext. for bactericide combinations in detergents)

IT Almond (Prunus amygdalus)  
Orange  
(sweet; ext. for bactericide combinations in detergents)

IT Amines, uses



- RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(tallow alkyl, ethoxylated, reaction products with chloroacetic acid;  
ext. for bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(tallow alkyl; bactericide combinations in detergents)
- IT Fatty acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(tallow, reaction products with triethanolamine, quaternized;  
bactericide combinations in detergents)
- IT Essential oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(thyme, *Thymus vulgaris*; bactericide combinations in detergents)
- IT Balsams  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(tolu; bactericide combinations in detergents)
- IT Balsams  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(tonka bean; bactericide combinations in detergents)
- IT Amines, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(unsatd., C18; bactericide combinations in detergents)
- IT Naphthenic acids, uses  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(zinc salts; bactericide combinations in detergents)
- IT 58999-88-5D, 1-Propanaminium, 3-amino-N,N,N-trimethyl-, derivs.  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(N-C12-18 acyl derivs., Me sulfates; bactericide combinations in  
detergents)
- IT 50-00-0, Formaldehyde, uses 50-00-0D, Formaldehyde, reaction products,  
uses 50-14-6 50-21-5, uses 50-65-7 50-99-7, D-  
Glucose, uses 51-03-6 51-28-5, uses 52-51-7 52-68-6  
54-21-7 54-64-8 55-38-9 55-56-1 55-86-7 56-35-9 56-36-0  
56-37-1 56-38-2 56-95-1 57-09-0 57-10-3,  
Hexadecanoic acid, uses 57-15-8 57-24-9, Strychnidin-10-one  
57-55-6D, Propylene glycol, reaction products with formaldehyde 58-36-6  
58-89-9 59-50-7 59-87-0 60-12-8, Benzeneethanol 60-51-5 61-73-4  
62-38-4 62-56-6, Thiourea, uses 62-73-7 63-25-2 64-18-6, Formic  
acid, uses 64-18-6D, Formic acid, reaction products 64-19-7D, Acetic  
acid, derivs., uses 64-69-7 67-20-9 67-63-0D, 2-Propanol, reaction  
products with boron trifluoride and 5-ethylidenebicyclo[2.2.1]hept-2-ene,  
uses 67-66-3, uses 67-68-5, uses 67-97-0 69-72-7, uses 70-55-3  
71-23-8, 1-Propanol, uses 71-41-0, 1-Pentanol, uses 72-43-5 72-56-0  
74-83-9, uses 75-12-7D, Formamide, reaction products with formaldehyde,  
uses 75-21-8, Oxirane, uses 75-31-0, 2-Propanamine, uses 75-91-2  
76-06-2 76-22-2 76-39-1 76-87-9 77-42-9 77-48-5 77-49-6  
77-78-1D, Dimethyl sulfate, quaternized with 9-octadecenoic  
acid/triethanolamine reaction products 77-78-1D, Dimethyl sulfate,  
quaternized with fatty acid/triethanolamine reaction products  
77-92-9, uses 78-59-1 78-69-3 78-70-6 78-79-5D, Isoprene,  
reaction products with acetic acid 78-83-1, uses 78-92-2, 2-Butanol  
79-07-2 79-08-3 79-11-8, uses 79-11-8D, Chloroacetic acid, reaction  
products with N-C10-16-alkyltrimethylenediamines 79-11-8D, Acetic acid,  
chloro-, reaction products with diethylenetriamine N-mono- and

di-C8-18-alkyl derivs., uses 79-14-1, uses 79-20-9 79-21-0,  
 Ethaneperoxoic acid 79-69-6 79-92-5D, 2,2-Dimethyl-3-  
 methylenebicyclo[2.2.1]heptane, reaction products with 2-methoxyphenol,  
 hydrogenated 80-26-2 80-27-3 80-46-6 80-71-7 81-07-2D, 1  
 ,2-Benzisothiazol-3(2H)-  
 one 1,1-dioxide, salts with quaternary ammonium compds.,  
 benzyl-Cl2-18-alkyldimethyl (1:1) 81-14-1 81-15-2 81-81-2 81-82-3  
 82-66-6 83-34-1 83-79-4 84-65-1, 9,10-Anthracenedione 84-66-2  
 84-74-2 85-91-6 87-10-5 87-17-2 87-20-7 87-22-9 87-90-1  
 88-04-0 88-06-2 88-14-2, 2-Furancarboxylic acid 88-84-6 89-68-9  
 89-78-1 89-79-2 89-83-8 90-05-1D, Phenol, 2-methoxy-, reaction  
 products with 2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane, hydrogenated  
 90-13-1 90-17-5 90-43-7, [1,1'-Biphenyl]-2-ol 90-43-7D,  
 [1,1'-Biphenyl]-2-ol, chlorinated 90-87-9 91-20-3, Naphthalene, uses  
 91-61-2 91-64-5, 2H-1-Benzopyran-2-one 93-15-2 93-16-3 93-51-6  
 93-59-4, Benzenecarboperoxoic acid 93-65-2 93-69-6 93-89-0 94-13-3  
 94-18-8 94-26-8 94-36-0, uses 94-96-2 95-14-7, 1H-Benzotriazole  
 95-41-0 95-48-7, uses 96-24-2 96-29-7 97-23-4 97-24-5 97-54-1  
 97-77-8 98-01-1, 2-Furancarboxaldehyde, uses 98-11-3D, Benzenesulfonic  
 acid, mono-Cl0-14-alkyl derivs., compds. with Me 1H-benzimidazol-2-  
 ylcarbamate, uses 98-53-3 98-55-5 99-49-0 99-76-3 99-86-5  
 100-37-8 100-44-7, uses 100-51-6, Benzenemethanol, uses 100-52-7,  
 Benzaldehyde, uses 100-73-2 100-86-7 100-89-0 100-97-0, uses  
 101-20-2 101-21-3 101-39-3 101-53-1 101-84-8 101-85-9 102-17-0  
 102-20-5 102-30-7 102-71-6D, copper complexes 102-71-6D,  
 Triethanolamine, reaction products with 9-octadecenoic acid, di-Me  
 sulfate-quaternized 102-98-7 103-05-9 103-26-4 103-52-6  
 103-82-2, Benzeneacetic acid, uses 103-95-7 104-09-6 104-21-2  
 104-29-0 104-53-0, Benzenepropanal 104-54-1 104-55-2 104-60-9  
 104-61-0 104-62-1 104-67-6 104-76-7 104-78-9 104-87-0 105-01-1  
 105-66-8 105-85-1 105-87-3 105-90-8 106-22-9 106-24-1 106-25-2  
 106-30-9 106-44-5, uses 106-46-7 106-70-7 106-72-9 106-73-0  
 106-79-6 106-88-7 106-89-8, uses 107-02-8, 2-Propenal, uses  
 107-21-1D, Ethylene glycol, reaction products with formaldehyde  
 107-22-2, Ethanedial 107-41-5 107-43-7 107-75-5 107-95-9D,  
 .beta.-Alanine, N-coco alkyl derivs. 108-16-7 108-39-4, uses  
 108-64-5 108-80-5, 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione 108-88-3,  
 uses 108-89-4 108-94-1, Cyclohexanone, uses 108-95-2, Phenol, uses  
 108-95-2D, Phenol, polypropene derivs., uses 108-99-6 109-21-7  
 109-89-7, uses 110-05-4 110-15-6, Butanedioic acid, uses  
 110-27-0 110-38-3 110-41-8 110-44-1 110-58-7, 1-Pentanamine  
 110-62-3, Pentanal 110-75-8 110-86-1, Pyridine, uses 110-89-4,  
 Piperidine, uses 111-11-5 111-27-3, 1-Hexanol, uses 111-30-8,  
 Pentanedial 111-40-0D, 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction  
 products with 1-chlorooctane  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)  
 IT 111-40-0D, Diethylenetriamine, reaction products with chloroacetic acid,  
 N-mono- and di-C8-18-alkyl derivs. 111-41-1D, 2-(2-  
 Aminoethyl)aminoethanol, reaction with coco fatty acids, quaternized  
 111-42-2, uses 111-46-6D, Diethylene glycol, reaction products with  
 formaldehyde 111-61-5 111-81-9 111-82-0 111-85-3D, 1-Chlorooctane,  
 reaction products with acetic acid and diethylenetriamine 111-85-3D,  
 1-Chlorooctane, reaction products with N-(2-aminoethyl)-1,2-ethanediamine  
 111-92-2 112-00-5 112-02-7 112-18-5 112-34-5D,  
 2-(2-Butoxyethoxy)ethanol, reaction products with formaldehyde 112-38-9,  
 10-Undecenoic acid 112-39-0 112-43-6, 10-Undecen-1-ol 112-45-8,  
 10-Undecenal 112-53-8, 1-Dodecanol 112-54-9, Dodecanal 112-59-4  
 112-61-8 112-69-6 112-72-1, 1-Tetradecanol 112-75-4 112-80-1D,  
 9-Octadecenoic acid (9Z)-, reaction products with triethanolamine, di-Me  
 sulfate-quaternized, uses 112-90-3 113-48-4 114-26-1 114-63-6  
 115-29-7 115-31-1 115-32-2 115-71-9 116-25-6 117-18-0 117-52-2

118-52-5 118-55-8 118-58-1 118-71-8 118-79-6 119-36-8  
 119-61-9, uses 120-32-1 120-47-8 120-50-3 120-51-4 120-57-0,  
 1,3-Benzodioxole-5-carboxaldehyde 120-72-9, 1H-Indole, uses 121-32-4  
 121-33-5 121-44-8, uses **121-54-0** 121-65-3 121-75-5  
 122-07-6 122-14-5 **122-18-9 122-19-0** 122-34-9  
 122-40-7 122-42-9 122-48-5 122-67-8 122-69-0 122-70-3  
 122-78-1, Benzeneacetaldehyde 122-97-4, Benzenepropanol 122-99-6  
 123-05-7 123-11-5, uses 123-29-5 123-30-8 123-32-0 123-66-0  
**124-04-9**, Hexanedioic acid, uses 124-07-2, Octanoic acid, uses  
 124-09-4, 1,6-Hexanediamine, uses 124-13-0, Octanal 124-19-6, Nonanal  
 124-22-1, 1-Dodecanamine 124-43-6 124-65-2 124-76-5 126-06-7  
 126-11-4 126-15-8 126-91-0 127-41-3 127-43-5 127-51-5 127-65-1  
 127-90-2 127-91-3 128-03-0 128-04-1 128-08-5 128-09-6 129-06-6  
 131-11-3 131-52-2 132-27-4 133-06-2 133-07-3 133-53-9 134-20-3  
 134-28-1 134-62-3 135-79-5 136-45-8 136-53-8 136-77-6 136-85-6  
 137-16-6 137-26-8 137-30-4 137-40-6 137-41-7 137-42-8 138-93-2  
**139-07-1 139-08-2** 140-10-3, uses 140-11-4 140-39-6  
 140-72-7 140-95-4 141-94-6 142-18-7 142-59-6 142-62-1, Hexanoic  
 acid, uses 142-71-2 143-07-7, Dodecanoic acid, uses 143-08-8,  
 1-Nonanol 143-14-6, 9-Undecenal 143-50-0 144-55-8, Carbonic acid  
 monosodium salt, uses 144-62-7, Ethanedioic acid, uses 147-71-7  
 148-24-3, 8-Quinolinol, uses 148-79-8 149-30-4, 2(3H)-  
 Benzothiazolethione 149-57-5 150-78-7 150-84-5 151-01-9  
 151-21-3, uses 156-62-7 298-12-4 299-84-3 300-76-5 302-01-2,  
 Hydrazine, uses 330-54-1 333-41-5 334-48-5, Decanoic acid 359-37-5  
 379-52-2 404-86-4 470-43-9 470-82-6 473-34-7 475-20-7D, reaction  
 products with formic acid and boron trifluoride 488-10-8 489-86-1  
 498-81-7 499-83-2, 2,6-Pyridinedicarboxylic acid 502-61-4 504-24-5,  
 4-Pyridinamine 507-60-8 507-70-0 514-51-2 515-00-4 515-69-5  
 520-45-6 **527-07-1** 532-32-1 533-74-4 534-18-9 535-89-7  
 536-59-4 536-60-7 538-71-6 539-82-2 539-90-2 541-91-3  
 544-63-8, Tetradeconoic acid, uses 551-92-8 556-61-6 557-08-4  
 576-55-6 577-11-7 582-25-2 584-79-2 589-38-8, 3-Hexanone  
 589-66-2 591-12-8 597-09-1 615-62-3 620-23-5 621-82-9, uses  
 624-15-7 625-51-4 626-82-4 628-63-7 638-37-9, Butanedial  
 639-58-7 643-79-8, 1,2-Benzenedicarboxaldehyde 646-06-0, 1,3-Dioxolane  
 659-40-5 683-10-3 688-73-3D, Stannane, tributyl-, mono(naphthenoyloxy)  
 derivs. 692-86-4 695-10-3D, 1H-Imidazole-1-ethanol, 4,5-dihydro-,  
 2-nortall-oil alkyl derivs. 696-59-3 699-02-5 705-86-2 706-14-9  
 719-96-0 731-27-1 762-26-5 770-35-4 789-02-6 821-55-6,  
 2-Nonanone 825-51-4 828-00-2 870-72-4 886-50-0 900-95-8  
 925-78-0, 3-Nonanone 929-73-7 959-55-7 971-66-4 991-42-4  
 996-35-0 1000-82-4 1066-30-4

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 1067-97-6 1085-12-7 1085-98-9 1111-67-7 **1119-94-4**  
**1119-97-7** 1120-24-7 1120-48-5 1121-30-8 1121-31-9  
 1123-85-9 1135-66-6 1192-52-5 1205-17-0 1209-61-6 1222-05-5  
 1300-71-6 1303-28-2, Arsenic oxide (As<sub>2</sub>O<sub>5</sub>) 1303-86-2, Boron oxide  
 (B<sub>2</sub>O<sub>3</sub>), uses 1303-96-4D, Borax (B<sub>4</sub>Na<sub>2</sub>O<sub>7</sub>·10H<sub>2</sub>O), reaction products with  
 sulfuric acid 1305-78-8, Calcium oxide, uses 1309-48-4, Magnesium  
 oxide (MgO), uses 1310-58-3, Potassium hydroxide (K(OH)), uses  
 1310-73-2, Sodium hydroxide (Na(OH)), uses 1314-13-2, Zinc oxide (ZnO),  
 uses 1314-84-7, Zinc phosphide (Zn<sub>3</sub>P<sub>2</sub>) 1317-38-0, Copper oxide (CuO),  
 uses 1317-39-1, Copper oxide (Cu<sub>2</sub>O), uses 1319-77-3 1320-44-1  
 1322-14-1 1323-00-8 1327-53-3, Arsenic oxide (As<sub>2</sub>O<sub>3</sub>) 1330-43-4,  
 Boron sodium oxide (B<sub>4</sub>Na<sub>2</sub>O<sub>7</sub>) 1331-83-5 1332-07-6 1332-65-6, Copper  
 chloride hydroxide (Cu<sub>2</sub>Cl(OH)<sub>3</sub>) 1333-53-5 1333-58-0 1333-82-0,  
 Chromium oxide (CrO<sub>3</sub>) 1333-83-1, Sodium fluoride (Na(HF<sub>2</sub>)) 1334-78-7  
 1335-10-0 1335-12-2 1335-46-2 1341-49-7, Ammonium fluoride  
 ((NH<sub>4</sub>)(HF<sub>2</sub>)) 1405-92-1 1414-45-5, Nisin A 1438-94-4 1446-61-3  
 1490-04-6 1634-02-2 1643-20-5 1696-17-9 1715-30-6 1777-82-8

1854-23-5 1854-26-8 1875-89-4 1885-38-7 1892-43-9 1897-45-6  
 1983-10-4 2016-56-0 2019-69-4 2032-65-7 2050-08-0 2090-05-3  
 2104-96-3 2120-70-9 2155-70-6 2216-51-5 2224-44-4 2244-16-8  
 2244-21-5 2275-23-2 2279-96-1, Butanediperoxoic acid 2305-25-1  
 2310-17-0 2372-82-9 2374-05-2 2390-68-3 2436-90-0 2439-10-3  
 2445-76-3 2463-53-8, 2-Nonenal 2491-38-5 2492-26-4 2500-83-6  
 2527-57-3 2527-58-4 2565-36-8 2571-88-2 2631-40-5  
**2634-33-5, 1,2-Benzisothiazol-**  
**3(2H)-one** 2639-63-6 **2682-20-4**  
 2756-56-1 2782-57-2 2832-19-1 2871-78-5 2875-41-4D, Glycine,  
 N-(3-aminopropyl)-, N'-C10-16-alkyl derivs., hydrochlorides 2893-78-9  
 2921-88-2 3006-10-8 3033-23-6 3064-70-8 3090-35-5 3142-72-1  
 3228-02-2 3302-10-1 3313-92-6 3332-27-2 3380-34-5 3383-96-8  
 3398-33-2 3547-33-9 3586-55-8 3691-35-8 3696-28-4 3697-42-5  
 3710-84-7 3766-81-2 3784-03-0 3785-34-0 3811-68-5 3811-73-2  
 3811-75-4 3851-97-6 3926-62-3D, Acetic acid, chloro-, sodium salt,  
 reaction products with 4,5-dihydro-1H-imidazole-1-ethanol 2-norcoco alkyl  
 derivs. and sodium hydroxide 3926-62-3D, Sodium chloroacetate, reaction  
 products with B-C12-18 alkylmethylenediamines 3984-22-3 4075-81-4  
 4080-31-3 4151-50-2 4169-04-4 4180-23-8 4182-44-9 4191-73-5  
 4247-02-3 4299-07-4 4299-60-9 4317-72-0 4317-79-7 4342-36-3  
 4454-05-1D, reaction products with ethanol 4525-33-1 4574-04-3  
 4602-84-0 4707-47-5 4719-04-4 4724-48-5 4824-78-6 4940-11-8  
 5026-62-0 5039-78-1 5153-25-3 **5197-80-8** 5329-14-6,  
 Sulfamic acid 5332-73-0 5392-40-5 5395-50-6 5437-45-6 5454-19-3  
 5462-06-6 5471-51-2 **5538-94-3** 5538-95-4 5598-13-0  
 5625-90-1 5725-96-2 5836-29-3 5915-41-3 5972-76-9 6001-64-5  
 6011-99-0 6051-03-2 6152-33-6 6317-18-6 6324-78-3 6378-65-0  
 6413-26-9 6440-58-0 6485-40-1 6542-37-6 6582-31-6 6834-92-0  
 6843-97-6 6915-15-7 6939-35-1 6988-21-2 7080-50-4 7166-19-0  
**7173-51-5** 7173-62-8 7281-04-1 7287-19-6 7320-34-5  
 7378-99-6 7440-22-4, Silver, uses 7440-50-8, Copper, uses 7446-20-0,  
 Zinc sulfate heptahydrate 7491-20-5 7491-21-6 7492-67-3 7540-51-4  
 7549-37-3 7553-56-2, Iodine, uses 7601-54-9D, Trisodium phosphate,  
 chlorinated 7631-89-2 7631-90-5 7632-04-4 7637-07-2D, Boron  
 trifluoride, reaction products with 2-propanol and 5-  
 ethylidenebicyclo[2.2.1]hept-2-ene 7640-33-7 7646-85-7, Zinc chloride  
 (ZnCl<sub>2</sub>), uses 7647-01-0, Hydrochloric acid, uses 7647-15-6, Sodium  
 bromide (NaBr), uses 7664-38-2, Phosphoric acid, uses 7664-41-7,  
 Ammonia, uses 7664-93-9, Sulfuric acid, uses 7681-49-4, Sodium  
 fluoride (NaF), uses 7681-52-9 7681-55-2 7681-57-4 7681-93-8  
 7696-12-0 7697-37-2, Nitric acid, uses 7699-45-8, Zinc bromide (ZnBr<sub>2</sub>)  
 7704-34-9, Sulfur, uses 7722-64-7 7722-84-1, Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>),  
 uses 7722-86-3, Peroxymonosulfuric acid 7726-95-6, Bromine, uses  
 7727-21-1 7733-02-0 7747-35-5 7757-81-5  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)  
 IT 7757-83-7 7758-02-3, Potassium bromide (KBr), uses 7758-19-2  
 7758-89-6, Copper chloride (CuCl) 7758-98-7, Sulfuric acid copper(2+)  
 salt (1:1), uses 7758-99-8 7775-09-9 7775-27-1 7778-39-4, Arsenic  
 acid (H<sub>3</sub>AsO<sub>4</sub>) 7778-43-0 7778-50-9 7778-54-3 7778-66-7 7779-27-3  
 7779-73-9 7779-78-4 7779-81-9 7782-44-7, Oxygen, uses 7782-50-5,  
 Chlorine, uses 7783-20-2, Sulfuric acid diammonium salt, uses  
 7783-90-6, Silver chloride (AgCl), uses 7786-29-0 7786-30-3, Magnesium  
 chloride (MgCl<sub>2</sub>), uses 7789-09-5 7789-12-0 7789-29-9, Potassium  
 fluoride (K(HF<sub>2</sub>)) 7789-33-5, Iodine bromide (IBr) 7790-28-5  
 7790-99-0, Iodine chloride (ICl) 7803-51-2, Phosphine 8000-41-7,  
 Terpeneol 8007-35-0 8018-01-7 9001-37-0 9002-91-9 9003-07-0D,  
 Polypropylene, phenol derivs. 9003-29-6 9003-63-8 9003-99-0,  
 Peroxidase 9004-82-4 9004-98-2 10028-15-6, Ozone, uses 10031-43-3  
 10032-15-2 10043-35-3, Boric acid (H<sub>3</sub>BO<sub>3</sub>), uses 10049-04-4, Chlorine  
 oxide (ClO<sub>2</sub>) 10058-23-8 10101-41-4 10124-37-5 10154-75-3

10187-52-7 10198-23-9 10222-01-2 10235-63-9 10294-64-1  
10332-33-9 10339-55-6 10345-79-6 10377-60-3 10378-23-1  
10380-28-6 10453-86-8 10460-00-1 10482-56-1 10486-00-7  
10543-57-4 10588-01-9 10588-15-5 10595-49-0 10605-21-7  
10605-21-7D, Methyl 1H-benzimidazol-2-ylcarbamate, compds. with  
benzenesulfonic acid mono-C10-14-alkyl derivs. 11031-45-1, Santalol  
11050-62-7 11084-85-8, Sodium hypochlorite phosphate (Na13(ClO)(PO4)4)  
11096-42-7 12008-41-2, Boron sodium oxide (B8Na2O13) 12062-24-7  
12069-69-1 12122-67-7 12124-97-9, Ammonium bromide ((NH4)Br)  
12179-04-3 12267-73-1 12280-03-4 12427-38-2 13014-03-4  
13019-22-2, 9-Decen-1-ol 13052-19-2 13108-52-6 13149-79-6  
13167-25-4 13197-76-7 13254-34-7 13351-61-6 13426-91-0  
13435-05-7 13463-41-7 13463-67-7, Titanium oxide (TiO2), uses  
13516-27-3 13517-11-8, Hypobromous acid 13532-18-8 13590-97-1  
13701-59-2 13707-65-8 13720-12-2 13755-29-8 13824-96-9  
13826-83-0 13840-33-0 13863-41-7, Bromine chloride (BrCl) 13877-91-3  
13980-04-6 14073-97-3 14371-10-9 14548-60-8 14576-08-0  
14667-55-1 14676-61-0D, 1-Propanamine, 3-(tridecyloxy)-, branched  
14762-38-0 14816-18-3 14915-37-8 14936-67-5 15323-35-0  
15435-29-7 15510-55-1 15627-09-5 15630-89-4 15707-23-0  
15733-22-9 15739-09-0 15809-19-5 15986-80-8 16079-88-2  
16219-75-3D, 5-Ethylidenebicyclo[2.2.1]hept-2-ene, reaction products with  
boron trifluoride and 2-propanol 16228-00-5 16409-43-1 16491-36-4  
16752-77-5 16828-95-8 16871-71-9 16893-85-9 16919-19-0  
16949-65-8 16961-83-4 17084-08-1 17342-21-1 17804-35-2  
18181-70-9 18181-80-1 18205-85-1 18339-16-7 18472-51-0  
18479-54-4 18479-57-7 18675-16-6 18675-17-7 18794-84-8  
18829-56-6 18854-01-8 18972-56-0 19014-05-2 19093-20-0  
19379-90-9 19388-87-5 19578-81-5 19766-89-3 19819-98-8  
19870-74-7 20013-73-4 20018-09-1 20543-04-8 20545-92-0  
20662-57-1 20679-58-7 20834-59-7 20859-73-8, Aluminum phosphide  
(AlP) 21129-27-1 21145-77-7 21564-17-0 21757-82-4 21834-92-4  
22009-37-6 22205-45-4, Copper sulfide (Cu2S) 22221-10-9 22248-79-9  
22781-23-3 22882-89-9 22882-91-3 22936-75-0 22981-54-0  
23031-36-9 23495-12-7 23560-59-0 23564-05-8 23726-92-3  
23726-94-5 23787-90-8 24019-05-4 24048-13-3 24111-17-9  
24124-25-2 24291-45-0 24634-61-5 24720-09-0 24851-98-7  
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25254-50-6 25265-71-8 25304-14-7 25377-70-2 25628-84-6  
25655-41-8 25988-97-0 26002-80-2 26062-79-3 26172-55-4  
26248-98-6 26354-18-7 26530-03-0 26530-20-1  
26545-49-3 26617-87-8 26635-93-8 26781-23-7 27083-27-8  
27176-87-0 27236-65-3 27253-29-8 27323-41-7 27697-50-3  
28069-74-1 28159-98-0 28219-61-6 28302-36-5  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(bactericide combinations in detergents)  
IT 28387-62-4 28434-00-6 28434-01-7 28558-32-9 28645-51-4,  
Oxacycloheptadec-10-en-2-one 28728-61-2 28772-56-7 28777-01-7  
28805-58-5 29232-93-7 29350-73-0 29463-06-7 29873-30-1  
29873-33-4 29973-13-5 30007-47-7 30388-01-3 30560-19-1  
30772-79-3 31075-24-8 31195-95-6 31218-83-4 31501-11-8  
31512-74-0 31906-04-4 32276-75-8 32289-58-0 32388-55-9  
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34395-72-7 34413-35-9 34681-10-2 34911-46-1 35109-57-0  
35206-70-3 35285-68-8 35285-69-9 35367-38-5 35445-70-6  
35554-44-0 35575-96-3 35691-65-7 35950-52-8 36059-35-5  
36362-09-1 36631-23-9 36734-19-7 37139-99-4 37228-06-1  
37306-10-8, Chromium copper boride 38083-17-9 38260-54-7  
38460-95-6D, 10-Undecenoyl chloride, reaction products with protein  
hydrolyzates, potassium salts 38465-60-0 38664-03-8 38811-14-2  
39236-46-9 39300-45-3 39354-45-5 39515-40-7 39650-63-0,  
1H-Benzimidazole-2-pentanamine 39660-17-8 39758-90-2 40027-80-3

40188-41-8 40596-69-8 41096-46-2 41877-16-1 42370-07-0  
 42436-34-0 42534-61-2 43143-11-9 44992-01-0 46830-22-2  
 46917-07-1 50542-90-0 50650-76-5 51015-28-2 51015-29-3  
 51026-28-9 51200-87-4 51566-62-2 51580-86-0 51630-58-1  
 52299-20-4 52304-36-6 52315-07-8 52513-11-8 52645-53-1  
 52684-21-6 52684-23-8 52918-63-5 53082-58-9 53488-14-5  
 53720-80-2 53727-58-5 54262-78-1 54406-48-3 54427-07-5, Copper  
 boride 54464-57-2 54720-15-9 54779-21-4 55142-08-0 55406-53-6  
 55566-30-8 55722-59-3 **55965-84-9** 56073-07-5 56073-10-0  
 56148-34-6 56148-37-9 56148-40-4 56289-76-0 56427-82-8  
 56709-13-8 56996-62-4, Glokill 77 57006-76-5 57382-78-2 57413-95-3  
 57503-06-7 57520-17-9 57576-09-7 57837-19-1 58206-95-4  
 58249-25-5 58769-20-3 59323-76-1 59324-17-3 59355-53-2, Citrex S 5  
 60114-62-7D, 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,  
 N-coco acyl derivs., inner salts 60168-88-9 60207-31-0 60207-90-1  
 60239-68-1 60568-05-0 60736-58-5 60763-40-8 60784-31-8  
 60812-23-9 61692-81-7 61692-84-0 61702-91-8 61842-86-2  
 62476-84-0D, Guanidine, N,N'''-1,3-propanediylbis-, N-coco alkyl derivs.,  
 acetates 62755-21-9 63085-03-0 63333-35-7 63500-71-0 63619-09-0  
 63943-38-4 **64359-81-5** 64440-88-6 64628-44-0 64665-57-2  
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 65400-98-8 65630-22-0 65694-09-9 65733-16-6 65733-18-8  
 66062-78-0 66063-61-4 66065-55-2D, Benzenemethanaminium,  
 N-(3-aminopropyl)-N,N-dimethyl-, chloride, N-coco acyl derivs.  
 66091-24-5D, 1-Propanaminium, 3-amino-N-ethyl-N,N-dimethyl-, N-lanolin  
 acyl derivs., Et sulfates 66204-44-2 66215-27-8 66789-18-2  
 66841-25-6 67100-72-5 67171-34-0 67185-04-0 67228-83-5  
 67485-29-4 67508-69-4 67633-95-8 67633-98-1 67633-99-2  
 67634-01-9 67634-12-2 67634-14-4 67634-15-5 67634-25-7  
 67634-26-8 67747-09-5 67772-01-4 67801-33-6 67801-44-9  
 67801-47-2 67845-46-9 67846-68-8 68085-85-8 68134-42-9  
 68155-66-8 68155-67-9 68188-98-7 68213-85-4 68224-19-1  
 68359-37-5 68480-15-9 68480-16-0 68527-77-5 68527-84-4  
 68738-96-5 68797-57-9 68890-66-4 68901-15-5 68929-85-1  
 68959-20-6 68991-96-8 68991-97-9 69094-18-4 69153-35-1  
 70161-44-3 70680-04-5 70680-05-6 70754-17-5 70775-75-6  
 70788-30-6 70799-70-1 70862-65-6 71297-57-9 71297-58-0  
 71297-59-1 71646-36-1 72089-08-8 72490-01-8 72963-72-5  
 73264-51-4 73337-96-9D, .beta.-Alanine, N-(2-aminoethyl)-N-(2-  
 hydroxyethyl)-, N-C8-18-acyl derivs.  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)  
 IT 74774-67-7 75033-25-9 75147-23-8 76382-10-0D, .beta.-Alanine,  
 N-(3-aminopropyl)-, N-coco alkyl derivs. 76653-57-1 76653-58-2  
 76733-35-2 76749-58-1 76902-90-4 77492-36-5 77492-37-6  
 77492-44-5 78144-21-5 78491-02-8 78587-05-0 79267-18-8  
 79267-19-9 79267-20-2 79267-21-3 79267-22-4 81335-77-5  
 81412-43-3, Tridemorph 81741-28-8 81786-73-4 81786-74-5 81786-75-6  
 81867-37-0 82007-94-1 82432-76-6 82432-77-7 82432-78-8  
 82633-79-2 82657-04-3 82790-32-7 82790-35-0 82790-36-1  
 82790-38-3 82801-21-6 82801-25-0 82801-26-1 82801-27-2  
 83145-28-2 83285-27-2 83601-71-2 84030-30-8 84233-90-9  
 84233-92-1 84473-74-5 84631-78-7 84643-53-8 85264-33-1  
 86115-11-9 86479-06-3 86880-59-3D, N-coco acyl derivs. 87118-95-4  
 88308-77-4 88558-41-2 88995-31-7 89415-87-2 89960-92-9  
 90117-66-1 91326-34-0 91465-08-6 92368-90-6 92585-24-5  
 93345-88-1 93345-89-2 93345-90-5 93345-91-6 93345-92-7  
 93778-80-4 93839-34-0 93856-82-7 93856-83-8 94005-95-5  
 94248-21-2 94313-91-4 94361-06-5 94857-31-5 95737-68-1  
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 104133-05-3 104653-34-1 105024-66-6 105726-67-8 107534-96-3

107879-22-1 108080-74-6 108166-32-1 108189-00-0 109780-03-2  
 109835-67-8 109835-68-9 109835-69-0 111099-92-4 111099-93-5  
 111337-53-2 114955-18-9 114955-19-0 114955-20-3 115044-19-4  
 116255-48-2 118712-89-3 119515-20-7 119515-38-7 120068-37-3  
 120217-93-8 120217-94-9 120983-64-4 121227-99-4 122538-65-2  
 122795-41-9 125116-23-6 125770-49-2 125770-50-5 125770-51-6  
 126646-06-8 126646-07-9 128275-31-0 136426-54-5 138261-41-3  
 138265-88-0, Boron zinc hydroxide oxide (B12Zn4(OH)14O15) 138416-95-2  
 138698-36-9 140194-01-0, 1,1,3-Propanetricarboxaldehyde 140194-02-1  
 144768-02-5 146919-78-0 149118-66-1 154194-73-7 154339-84-1,  
 Silver sodium zirconium phosphate (Ag0.19Na0.47Zr2(HPO4)0.34(PO4)2.66)  
 154339-85-2 173291-51-5 173423-45-5, Silver sodium zirconium phosphate  
 (Ag0.44Na0.25Zr2(HPO4)0.3(PO4)2.7) 187615-12-9 188739-94-8  
 191546-07-3 191546-08-4 199169-27-2 216770-11-5, Silver sodium  
 zirconium phosphate (Ag0.05Na0.3Zr2(HPO4)0.65(PO4)2.35) 251089-42-6  
 344931-17-5D, 1-Propanaminium, 3-amino-N-[2-[(2-hydroxyethyl)amino]-2-  
 oxoethyl]-N,N-dimethyl-, chloride, N-C16-18 acyl derivs. 351224-25-4  
 351224-26-5

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 9001-92-7, Protease

RL: NUU (Other use, unclassified); USES (Uses)

(bactericide combinations in detergents)

IT 87-86-5, Pentachlorophenol

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

BIOL (Biological study); USES (Uses)

(esters with fatty acids; bactericide combinations in detergents)

IT 65-85-0, Benzoic acid, uses

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

BIOL (Biological study); USES (Uses)

(r; bactericide combinations in detergents)

IT 50-99-7, D-Glucose, uses 56-37-1

57-09-0 77-92-9, uses 110-15-6, Butanedioic

acid, uses 112-00-5 112-02-7 121-54-0

122-18-9 122-19-0 124-04-9, Hexanedioic acid,

uses 139-07-1 139-08-2 527-07-1

1119-94-4 1119-97-7 2634-33-5, 1,

2-Benzisothiazol-3(2H)-one

2682-20-4 5197-80-8 5538-94-3

7173-51-5 18472-51-0 19014-05-2

26172-55-4 26530-03-0 26530-20-1

55965-84-9 64359-81-5

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);

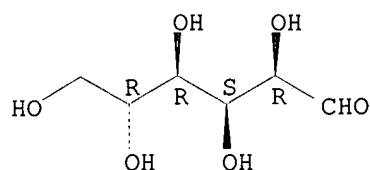
BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

RN 50-99-7 HCAPLUS

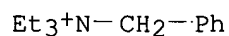
CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



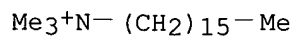
RN 56-37-1 HCAPLUS

CN Benzenemethanaminium, N,N,N-triethyl-, chloride (9CI) (CA INDEX NAME)



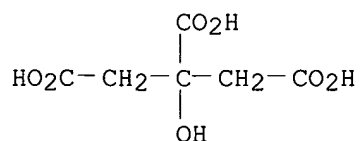
●  $\text{Cl}^-$

RN 57-09-0 HCAPLUS  
CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

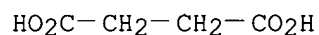


●  $\text{Br}^-$

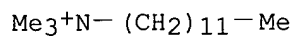
RN 77-92-9 HCAPLUS  
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 110-15-6 HCAPLUS  
CN Butanedioic acid (9CI) (CA INDEX NAME)

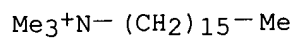


RN 112-00-5 HCAPLUS  
CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



●  $\text{Cl}^-$

RN 112-02-7 HCAPLUS  
CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

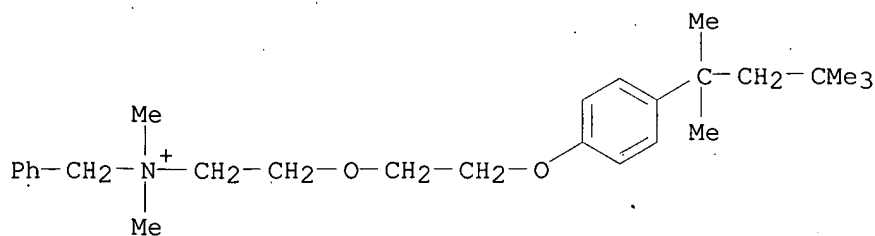


$\text{Cl}^-$

RN 121-54-0 HCAPLUS



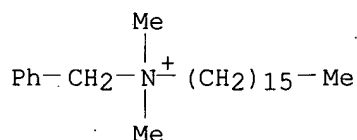
CN Benzenemethanaminium, N,N-dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 122-18-9 HCAPLUS

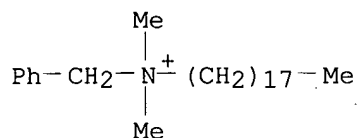
CN Benzenemethanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

RN 122-19-0 HCAPLUS

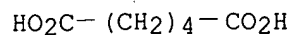
CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

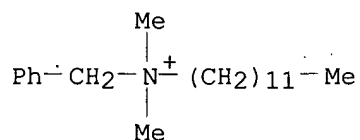
RN 124-04-9 HCAPLUS

CN Hexanedioic acid (9CI) (CA INDEX NAME)

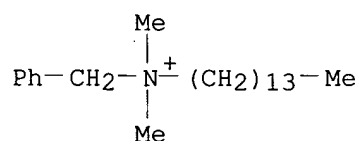


RN 139-07-1 HCAPLUS

CN Benzenemethanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

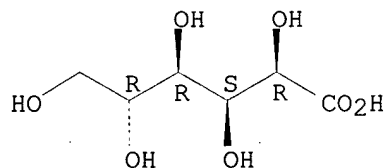
● Cl<sup>-</sup>

RN 139-08-2 HCAPLUS  
 CN Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

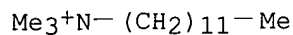
RN 527-07-1 HCAPLUS  
 CN D-Gluconic acid, monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

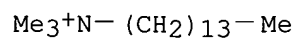


● Na

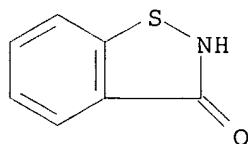
RN 1119-94-4 HCAPLUS  
 CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

● Br<sup>-</sup>

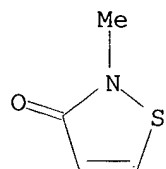
RN 1119-97-7 HCAPLUS  
 CN 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



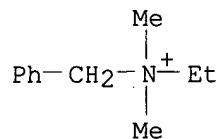
RN 2634-33-5 HCAPLUS  
CN 1,2-Benzisothiazol-3(2H)-one (9CI) (CA INDEX NAME)



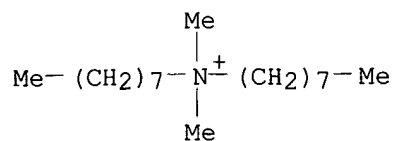
RN 2682-20-4 HCAPLUS  
CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)



RN 5197-80-8 HCAPLUS  
CN Benzenemethanaminium, N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

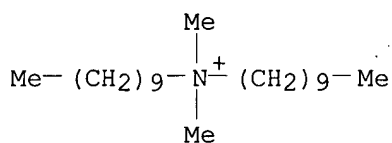


RN 5538-94-3 HCAPLUS  
CN 1-Octanaminium, N,N-dimethyl-N-octyl-, chloride (9CI) (CA INDEX NAME)



RN 7173-51-5 HCAPLUS

CN 1-Decanaminium, N-decyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 18472-51-0 HCAPLUS

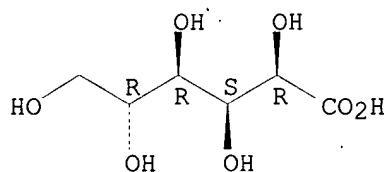
CN D-Gluconic acid, compd. with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 526-95-4

CMF C6 H12 O7

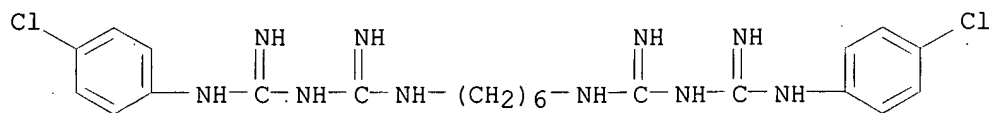
Absolute stereochemistry.



CM 2

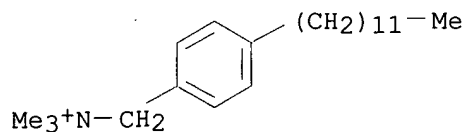
CRN 55-56-1

CMF C22 H30 Cl2 N10

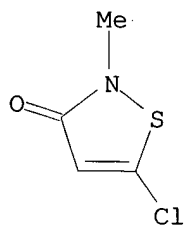


RN 19014-05-2 HCAPLUS

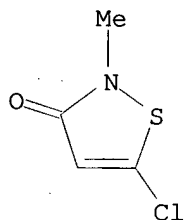
CN Benzenemethanaminium, 4-dodecyl-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 26172-55-4 HCAPLUS  
 CN 3(2H)-Isothiazolone, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)

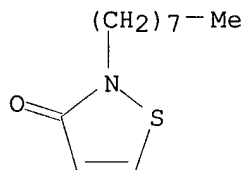


RN 26530-03-0 HCAPLUS  
 CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

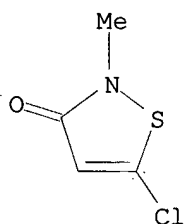
RN 26530-20-1 HCAPLUS  
 CN 3(2H)-Isothiazolone, 2-octyl- (9CI) (CA INDEX NAME)



RN 55965-84-9 HCAPLUS  
 CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (9CI) (CA INDEX NAME)

CM 1

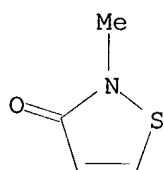
CRN 26172-55-4  
 CMF C4 H4 Cl N O S



CM 2

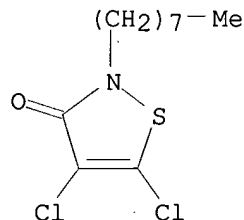
CRN 2682-20-4

CMF C4 H5 N O S



RN 64359-81-5 HCAPLUS

CN 3(2H)-Isothiazolone, 4,5-dichloro-2-octyl- (9CI) (CA INDEX NAME)



L161 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:742053 HCAPLUS

DN 133:310142

TI Synthesis, activity and formulations of pharmaceutical compounds for treatment of oxidative stress and/or endothelial dysfunction

IN Del Soldato, Piero

PA Nicox S.A., Fr.

SO PCT Int. Appl., 159 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07C203-04

ICS C07C327-34; C07D209-28; C07D233-64; C07D495-04; C07C211-49;  
 C07F009-38; C07D295-088; C07D207-16; C07D499-32; C07D473-08;  
 C07C211-42; C07D219-10; C07D307-30; C07D401-14; C07D401-12;  
 C07D407-04; C07D417-12; C07H015-252; A61K031-21

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000061537	A2	20001019	WO 2000-EP3234	20000411

WO 2000061537 A3 20010927

W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DM, EE, GE, HR, HU, ID,  
IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX,  
NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA,  
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

IT 1311924 B1 20020320 IT 1999-MI753 19990413

BR 2000009702 A 20020108 BR 2000-9702 20000411

EP 1169294 A2 20020109 EP 2000-925203 20000411

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

JP 2002541233 T2 20021203 JP 2000-610814 20000411

NO 2001004927 A 20011213 NO 2001-4927 20011010

PRAI IT 1999-MI753 A 19990413

WO 2000-EP3234 W 20000411

OS MARPAT 133:310142

AB Compds. A-B-C-N(O)s and A-C1[N(O)s]-B1 or their salts [s is an integer 1 or 2, preferably s = 2; A is the radical of a drug and is such as to meet the pharmacol. tests reported in the description; C and C1 are two bivalent radicals; the precursors of the radicals B and B1 are such as to meet the pharmacol. test reported in the description] were prep'd. for use as pharmaceuticals. Thus, (S,S)-N-acetyl-S-(6-methoxy-.alpha.-methyl-2-naphthalenylacetyl)cysteine 4-nitroxybutyl ester was prep'd. (NCX 2101) from naproxene and N-acetylcysteine in the first of 28 synthetic examples given. Pharmacol. test examples and tabular data are also given.

ST pharmaceutical comp'd prepn oxidative stress treatment; endothelial function treatment pharmaceutical comp'd prepn; antiinflammatory precursor; analgesic precursor; bronchodilator precursor; expectorant precursor; mucolytic precursor; antiasthmatic precursor; antihistaminic precursor; ACE inhibitor precursor; beta blocker precursor; antithrombotic precursor; vasodilator precursor; antidiabetic precursor; antitumor precursor; antiulcer precursor; antihyperlipidemic precursor; antibiobiotic precursor; antiviral precursor; bone reabsorption drug precursor; antidementia drug precursor

IT Mental disorder  
(dementia; synthesis, activity and formulations of pharmaceutical comp'ds. for treatment of oxidative stress and/or endothelial dysfunction)

IT Bone  
(reabsorption inhibitors; synthesis, activity and formulations of pharmaceutical comp'ds. for treatment of oxidative stress and/or endothelial dysfunction)

IT Allergy inhibitors  
Analgesics  
Anti-inflammatory agents  
Antiaesthmatics  
Antibiotics  
Anticoagulants  
Antidiabetic agents  
Antihistamines  
Antitumor agents  
Antiviral agents  
Bronchodilators  
Expectorants  
Hypolipemic agents  
Vasodilators

(synthesis, activity and formulations of pharmaceutical comp'ds. for treatment of oxidative stress and/or endothelial dysfunction)

IT Peptides, preparation  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)  
(synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT Amino acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT Adrenoceptor antagonists

(.beta.-; synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)

IT 50-33-9, Phenylbutazone, reactions 50-44-2, Mercaptopurine 50-59-9, Cephaloridine 50-91-9, Floxuridine 51-21-8, Fluorouracil 51-43-4, Epinephrine 51-45-6, Histamine, reactions 53-79-2, Puromycin 54-25-1, Azauridine 54-42-2, Idoxuridine 54-80-8, Pronethalol 54-85-3, Isoniazid 56-75-7, Chloramphenicol 56-81-5D, Glycerol, iodo deriv. 57-08-9, .epsilon.-Acetamidocaproic acid 57-22-7, Vincristine 57-27-2, Morphine, reactions 57-50-1, reactions 57-62-5, 57-67-0, Sulfaguanidine 57-68-1, Sulfamethazine 57-92-1, Streptomycin, reactions 58-32-2, Dipyridamole 59-05-2, Methotrexate 60-00-4, Edetic acid, reactions 60-54-8, Tetracycline 61-24-5, CephalosporinC 61-33-6, Benzylpenicillinic acid, reactions 61-68-7, Mefenamic acid 61-72-3, Cloxacillin 63-74-1, Sulfanilamide 65-45-2 65-49-6, p-Aminosalicylic acid 66-79-5, Oxacillin 68-26-8, Vitamin A 68-35-9, Sulfadiazine 68-41-7, Cycloserine 68-88-2, Hydroxyzine 68-90-6, Benzydaron 69-33-0, Tubercidin 70-00-8, Trifluridine 72-14-0, Sulfathiazole 74-31-7, N,N'-Diphenyl-p-phenylenediamine 74-55-5, Ethambutol 74-79-3, Arginine, reactions 76-41-5, Oxymorphone 76-42-6, Oxycodone 76-57-3, Codeine 76-58-4, Ethylmorphine 77-07-6, Levorphanol 79-57-2, Oxytetracycline 80-02-4, 2-p-Sulfanilylanilinoethanol 80-03-5, Acediasulfone 80-08-0, 4,4'-Sulfonyldianiline 80-32-0, Sulfachlorpyridazine 80-35-3, Sulfamethoxypyridazine 80-53-5, Terpin 84-16-2, Hexestrol 87-08-1, Penicillin V 87-09-2, Penicillin O 87-28-5, Glycolsalicylate 89-45-2, Salicylsulfuric acid 90-05-1, Guaiacol 91-53-2, Ethoxyquin 93-14-1, Guaifenesin 94-10-0, Ethoxazene 94-19-9, Sulfaethidole 97-53-0, Eugenol 97-54-1, Isoeugenol 98-54-4 98-92-0, Nicotinamide 100-55-0, Nicotinyl alcohol 101-91-7, 4'-Hydroxybutyranilide 103-12-8, Sulfamidochrysoidine 103-97-9, Phenocoll 110-17-8, Fumaric acid, reactions 111-17-1, 3,3'-Thiodipropionic acid 113-98-4, Penicillin G potassium salt 114-07-8, Erythromycin 115-02-6, Azaserine 115-68-4, Sulfadiazine 116-42-7, Sulfaproxyline 116-44-9, Sulfapyrazine 118-55-8, Phenyl salicylate 118-57-0, Acetaminosalol 119-98-2, Tocol 120-34-3, n-Sulfanilyl-3,4-xylamide 121-00-6, 3-tert-Butyl-4-hydroxyanisole 121-79-9, Propyl gallate 122-11-2, Sulfadimethoxine 125-28-0, Dihydrocodeine 125-29-1, Hydrocodone 127-07-1, Hydroxyurea 127-33-3, Demeclocycline 127-35-5, Phenazocine 127-69-5, Sulfisoxazole 127-71-9, Sulfabenzamide 127-79-7, Sulfamerazine 128-37-0, 3,5-Di-tert-Butyl-4-hydroxytoluene, reactions 128-46-1, Dihydrostreptomycin 129-20-4, Oxyphenbutazone 130-16-5, Cloxyquin 132-60-5, Cinchophen 132-92-3, Methicillinsodium salt 132-93-4, Phenethicillin potassium salt 133-11-9, Phenylaminosalicylate 134-55-4, Phenylacetylsalicylate 136-70-9, Protokylol 138-52-3, Salicin 143-52-2, Metopon 144-14-9, Anileridine 144-80-9, Sulfacetamide 144-82-1, Sulfamethizole 144-83-2, Sulfapyridine 147-94-4, Cytarabine 148-24-3, 8-Quinololinol, reactions 148-82-3, Melphalan 152-47-6, Sulfalene 153-61-7, Cephalothin 154-21-2, Lincomycin 154-42-7, Thioguanine 157-03-9, 6-Diazo-5-oxo-L-norleucine 299-42-3, Ephedrine 302-79-4, Retinoic acid 303-81-1, Novobiocin 305-03-3, Chlorambucil 315-30-0, Allopurinol 320-67-2, Azacitidine 322-79-2, Triflusal 339-43-5, Carbutamide 359-83-1, Pentazocine 389-08-2 390-64-7, Prenylamine 395-28-8, Isoxsuprine 404-86-4, Capsaicine 427-00-9, Desomorphine 437-74-1, Xanthinol niacinate



443-48-1, Metronidazole 447-41-6, Nylidrin 456-59-7, Cyclandelate  
 458-35-5 458-37-7, Curcumin 466-97-7, Normorphine 466-99-9,  
 Hydromorphone 468-56-4, Hydroxypethidine 473-30-3, Thiazolsulfone  
 477-30-5, Demecolcine 485-41-6, Sulfachrysoidine 486-79-3, Dipyroceryl  
 487-48-9, Salacetamide 488-41-5, Mitobronitol 495-76-1, Piperonyl  
 alcohol 495-84-1, Salinazid 497-75-6 498-71-5, Sobrerol 501-94-0,  
 4-Hydroxyphenethyl alcohol 509-60-4, Dihydromorphine 515-49-1,  
 Sulfathiourea 515-59-3, Sulfamethylthiazole 515-64-0, Sulfisomidine  
 515-69-5, Bisabolol 518-28-5, Podophyllotoxin 519-37-9, Etofylline  
 525-94-0, Penicillin N 526-08-9, Sulfaphenazole 526-84-1,  
 Dihydroxymaleic acid 530-08-5, Isoetharine 530-75-6,  
 Acetylsalicylsalicylicacid 530-78-9, Flufenamicacid 533-73-3,  
 Hydroxyhydroquinone 536-24-3, Ethylnorepinephrine 539-08-2,  
 p-Lactophenetide 545-90-4, Dimepheptanol 547-44-4, Sulfanilylurea  
 547-52-4, Sulfanilylsulfanilamide 547-53-5 551-27-9, Propicillin  
 552-94-3, Salsalate 553-69-5, Benzenemethanol, ..alpha..-[(2-  
 pyridinylamino)methyl]- 562-26-5, Phenoperidine 574-77-6, Papaveroline  
 576-68-1, Mannomustine 577-85-5, 3-Hydroxyflavone 581-64-6, Thionine  
 586-06-1, Metaproterenol 599-88-2, Sulfaperine 603-00-9, Proxiphylline  
 610-88-8 **632-00-8**, Sulfasomizole 635-65-4, Bilirubin,  
 reactions 639-48-5, Nicomorphine 644-62-2, Meclofenamicacid  
 651-06-9, Sulfameter 652-37-9, Acefylline 723-46-6, Sulfamethoxazole  
 729-99-7, Sulfamoxole 751-97-3, Rolitetacycline 768-94-5, Amantadine  
 801-52-5, Porfiromycin 808-26-4, Sancycline 824-46-4,  
 Methoxyhydroquinone 840-50-6, MADU 865-21-4, Vinblastine 959-10-4,  
 Xenbucin **987-78-0**, Citicoline 992-21-2, Lymecycline  
 1077-28-7, Thiocetic acid 1083-57-4, Bucetin 1110-80-1, Pipacycline  
 1159-93-9, Clobenzepam 1174-11-4, Xenazoic acid 1181-54-0,  
 Clomocycline 1400-61-9, Nystatin 1403-28-7, Carzinophilin  
**1403-66-3**, Gentamicin 1404-04-2, Neomycin 1404-15-5,  
 Nogalamycin 1406-18-4, Vitamin E 1503-53-3, 5-Bromosalicylic acid  
 acetate 1531-12-0, Norlevorphanol 1553-60-2, Ibufenac 1596-63-0,  
 Quinacillin 1614-20-6, Nifurpazine 1695-77-8, Spectinomycin  
 1853-37-8, Podophyllicacid 1926-49-4, Clometocillin 1953-02-2,  
 Tiopronin 1984-94-7, Sulfasymazine 2013-58-3, Meclocycline  
 2016-63-9, Bamifylline 2030-63-9, Clofazimine 2055-44-9, Perisoxal  
 2179-16-0, Ninopterin 2315-08-4, Salazosulfadimidine 2316-64-5,  
 Bromosaligenin 2363-58-8, Epitiostanol 2373-80-0, 3,4-  
 Methylenedioxycinnamic acid 2447-57-6, Sulfadoxine 2750-76-7, Rifamide  
 RL: RCT (Reactant); RACT (Reactant or reagent)

(drug precursor)

IT 2751-09-9, Troleandomycin 2779-55-7, Opiniazide 2809-21-4,  
 Etidronicacid 2933-94-0, Toliprolol 3056-17-5, Stavudine 3094-09-5,  
 Doxifluridine 3116-76-5, Dicloxacillin 3215-70-1, Hexoprenaline  
 3485-14-1, Cyclacillin 3511-16-8, Hetacillin 3567-76-8 3572-43-8,  
 Bromhexine 3577-01-3, Cephaloglycin 3590-05-4,  
 Acetylsulfamethoxypyrazine 3611-72-1, Clobenfurol 3690-05-9,  
 p-Coumaric alcohol 3691-74-5, Glyconiazide 3703-79-5, Bamethan  
 3733-81-1, Defosfamide 3734-52-9, Metazocine 3772-76-7,  
 Sulfamethomidine 3811-25-4 3820-67-5, Glafenine 3922-90-5,  
 Oleandomycin 3930-19-6, Streptonigrin 3930-20-9, Sotalol 4008-48-4,  
 Nitroxoline 4097-22-7, Dideoxyadenosine 4393-19-5 4394-00-7,  
 Niflumicacid 4564-87-8, Carbomycin 4697-36-3, Carbenicillin  
 4803-27-4, Anthramycin 5205-82-3, Bevoniummethylsulfate 5250-39-5,  
 Floxacillin 5486-77-1, Alloclamide 5536-17-4, Vidarabine 5581-52-2,  
 Thiamiprine 5633-20-5, Oxybutynin 5638-76-6, Betahistine 5728-52-9,  
 Felbinac 5741-22-0, Moprolol 5934-14-5, Succisulfone 6064-83-1,  
 Fosfosal 6135-36-0, 1-Butyl-3-methylurea 6202-21-7,  
 4-Sulfanilamidosalicylic acid 6452-71-7, Oxprenolol 6489-97-0,  
 Metampicillin 6621-47-2, Perhexiline 6673-35-4, Practolol 6946-29-8,  
 P-Aminosalicylicacidhydrazide 6998-60-3, Rifamycin 7413-36-7,  
 Nifenalol 7481-89-2, Zalcitabine 7542-37-2, Paromomycin 8025-81-8,  
 Spiramycin **9005-49-6**, Dalteparin, reactions **9041-08-1**,

Reviparin sodium 10118-90-8, Minocycline 10318-26-0, Mitolactol 11003-38-6, Capreomycin 11006-76-1, Virginiamycin 11120-15-3, Dermostatin 12650-69-0, Mupirocin 13042-18-7, Fendiline 13292-46-1, Rifampin 13392-18-2, Fenoterol 13392-28-4, Rimantadine 13411-16-0, Nifurpirinol 13523-86-9, 13642-52-9, Soterenol 13655-52-2, Alprenolol 13665-88-8, Mopidamol 13710-19-5, Tolfenamicacid 13739-02-1, Diacerein 13741-18-9, Xibornol 13799-03-6, Protizinicacid 13838-08-9, Azidamfenicol 13898-58-3, Benzoylpas 13925-12-7, Myxin 13946-02-6, Metron S 13993-65-2, Metiazinicacid 14556-46-8, Bupranolol 14838-15-4, Phenylpropanolamine 15176-29-1, Edoxudine 15307-79-6, Sodium diclofenac 15468-10-7, Oxidronic acid 15599-51-6, Apicycline 15686-71-2, Cephalixin 15722-48-2, Olsalazine 16110-51-3, 16545-11-2, Guamecycline 16846-24-5, Josamycin 17243-38-8, Azidocillin 17737-65-4, Clonixin 17784-12-2, Sulfacytine 17969-20-9, Fenclozicacid 18046-21-4, Fentiazac 18323-44-9, Clindamycin 18378-89-7, Plicamycin 18471-20-0, Ditzol 18699-02-0, Actarit 18883-66-4, Streptozocin 19562-30-2, Piromidicacid 19767-45-4, Mesna 20168-99-4, Cinmetacin 20187-55-7, Bendazac 20594-83-6, Nalbuphine 20830-81-3, Daunorubicin 21256-18-8, Oxaprozin 21679-14-1, Fludarabine 22006-84-4, Denopterin 22071-15-4, Ketoprofen 22103-14-6, Bufeniode 22131-79-9, Alclofenac 22254-24-6, Ipratropiumbromide 22494-42-4, Diflunisal 22664-55-7, Metipranolol 22668-01-5, Etanidazole 23031-25-6, Terbutaline 23049-93-6, Enfenamic acid 23210-56-2, Ifenprodil 23239-41-0, Cephacetrilesodium 23477-98-7, Sedecamycin 23694-81-7, Mepindolol 23779-99-9, Floctafenine 24237-54-5, Tinoridine 24280-93-1, Mycophenolic acid 24356-60-3, Cephapirinsodium 25395-22-6, Salicylamide O acetic acid 25546-65-0, Ribostamycin 25803-14-9, Clometacin 25953-19-9, Cefazolin 26086-49-7, Deoxydihydrostreptomycin 26171-23-3, Tolmetin 26774-90-3, Epicillin 26787-78-0, Amoxicillin 26839-75-8, Timolol 26973-24-0, Ceftezole 27031-08-9, Sulfaguanole 27203-92-5, Tramadol 27470-51-5, Suxibuzone 27726-31-4, Pivcephalexin 27762-78-3, Kethoxal 28657-80-9, Cinoxacin 29122-68-7, Atenolol 29679-58-1, Fenoprofen 29767-20-2, Teniposide 30187-90-7, Xibenolol 30286-75-0, Oxitropium bromide 30392-40-6, Bitolterol 30418-38-3, Tretoquinol 30516-87-1, Zidovudine 30544-47-9, Etofenamate 30653-83-9, Parsalmide 31127-82-9, Iodoxamide 31698-14-3, Ancitabine 31793-07-4, Pirprofen 31842-01-0, Indoprofen 32385-11-8, Sisomicin 32527-55-2, Tiaramide 32665-36-4, Eprozinol 32808-51-8, Bucloxix acid 32887-01-7, Amdinocillin 32909-92-5, Sulfametrole 32953-89-2, Rimiterol 32986-56-4, Tobramycin 32988-50-4, Viomycin 33005-95-7, Tiaprofenicacid 33069-62-4, Paclitaxel 33103-22-9, Enviomycin 33159-27-2, Ecabet 33369-31-2, Zomepirac 33404-78-3, Negamycin 33419-42-0, Etoposide 33817-20-8, Pivampicillin 33996-33-7, Oxaceprol 34148-01-1, Clidanac 34444-01-4, Cefamandole 34493-98-6, Dibekacin 34552-84-6, Isoxicam 34661-75-1, Urapidil 34675-84-8, Cetraxate 34787-01-4, Ticarcillin 34866-47-2, Carbuterol 34915-68-9, Bunitrolol 34919-98-7, Cetamolol 35457-80-8, Midecamycin 35531-88-5, Carindacillin 35607-66-0, Cefoxitin 36330-85-5, Fenbufen 36702-83-7, Tinofedrine 36791-04-5, Ribavirin 36894-69-6, Labetalol 36981-91-6, Fepradinol 37091-66-0, Azlocillin 37148-27-9, Clenbuterol 37321-09-8, Apramycin 37517-28-5, Amikacin 37517-30-9, Acebutolol 37762-06-4, Zaprinas 38129-37-2, Bicozamycin 38194-50-2, Sulindac 38363-40-5, Penbutolol 38677-81-5, Pirbuterol 38677-85-9, Flunixin 38821-53-3, Cephradine 39324-30-6, Pepstatin 39718-89-3, Alminoprofen 39809-25-1, Penciclovir 40391-99-9, Pamidronicacid 40828-46-4, Suprofen 41340-25-4, Etodolac 41570-61-0, Tulobuterol 41744-40-5, Sulbenicillin 42200-33-9, Nadolol 42408-82-2, Butorphanol 42779-82-8, Clopirac 42794-76-3, Midodrine 42835-25-6, Flumequine 47747-56-8, Talampicillin 50264-69-2, Lonidamine 50270-33-2, Isofezolac 50370-12-2, Cefadroxil 50679-08-8, Terfenadine 50935-04-1, Carubicin 50972-17-3, Bacampicillin 51025-85-5, Arbekacin 51384-51-1, Metoprolol 51395-42-7, Butedronic acid 51481-61-9, Cimetidine 51481-65-3, Mezlocillin 51579-82-9, Amfenac 51627-14-6,

Cefatrizine 51762-05-1, Cefroxadine 51781-06-7, Carteolol  
51940-44-4, Pipemidicacid 52081-33-1, Mitomycins 52093-21-7,  
Micronomicin

RL: RCT (Reactant); RACT (Reactant or reagent)  
(drug precursor)

IT 52109-93-0, 52128-35-5, Trimetrexate 52152-93-9 52443-21-7,  
Glucametacin 52485-79-7, Buprenorphine 52549-17-4, Pranoprofen  
53164-05-9, Acemetacin 53237-59-5, Urushiol 53597-27-6, Fendosal  
53643-48-4, Vindesine 53648-05-8, Ibuprofen 53648-55-8, Dezocine  
53684-49-4, Bufetolol 53716-49-7, Carprofen 53910-25-1, Pentostatin  
53943-88-7, Letosteine 53994-73-3, Cefaclor 54063-51-3, Nadoxolol  
54063-54-6, Reproterol 54083-22-6, Zorubicin 54340-58-8, Meptazinol  
54340-62-4, Bufuralol 54749-90-5, Chlorozotocin 54767-75-8, Suloctidil  
55028-70-1, Arbutin 55268-75-2, Cefuroxime 55453-87-7, Isoxepac  
55726-47-1, Enocitabine 55837-18-8, Butibufen 55881-07-7, Miokamycin  
**56180-94-0**, Acarbose 56187-47-4, Cefazedone 56187-89-4,  
Ximoprofen 56341-08-3, Mabuterol 56391-56-1, Netilmicin 56420-45-2,  
Epirubicin 56695-65-9, Rosaprostol 56796-20-4, Cefmetazole  
56980-93-9, Celiprolol 57381-26-7, Irsogladine 57460-41-0, Talinolol  
57475-17-9, Brovincamine 57653-27-7, Droprenilamine 57775-29-8,  
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58930-32-8, Butofilolol 58957-92-9, Idarubicin 58970-76-6, Ubenimex  
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60607-68-3, Indenolol 60925-61-3, Ceforanide 61270-58-4, Cefonicid  
61379-65-5, Rifapentine 61477-96-1, Piperacillin 61622-34-2, Cefotiam  
61869-07-6, Domiodol 62013-04-1, Dirithromycin 62571-86-2, Captopril  
62613-82-5, Oxiracetam 62732-44-9, Ipidacrine 62893-19-0, Cefoperazone  
63147-28-4, Acetic acid, mercapto-, [3,5-bis(1,1-dimethylethyl)-4-  
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65189-78-8, Tropesin 65271-80-9, Mitoxantrone 65646-68-6, Fenretinide  
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Flunoxaprofen 68302-57-8, Amlexanox 68373-14-8, Sulbactam  
68377-92-4, Arotinolol 68401-81-0, Ceftizoxime 68767-14-6, Loxoprofen  
69049-73-6, Nedocromil 69655-05-6, Didanosine 69712-56-7, Cefotetan  
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Eflornithine 70374-39-9, Lornoxicam 70458-92-3, Pefloxacin  
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72732-56-0, Piritrexim 72956-09-3, Carvedilol 73080-51-0, Repirinast  
73121-56-9, Enprostil 73384-59-5, Ceftriaxone 73573-87-2, Formoterol  
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 Quinapril 85721-33-1, Ciprofloxacin 85856-54-8, Moveltipril  
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 87239-81-4, Cefpodoxime proxetil 87333-19-5, Ramipril 87638-04-8,  
 Carumonam 87679-37-6, Trandolapril 87806-31-3, Porfimersodium  
 87848-99-5, Acrivastine 88040-23-7, Cefepime 88669-04-9,  
 Trospectomycin 88768-40-5, Cilazapril 89365-50-4, Salmeterol  
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 Tosufloxacin 101363-10-4D, Rufloxacin, iodo deriv. 102507-71-1,  
 Tigemonam 102625-70-7, Pantoprazole 103878-84-8, Lazabemide  
 104145-95-1, Cefditoren 104227-87-4, Famciclovir 105239-91-6,  
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 Sparfloxacin 111223-26-8, Ceronapril 111902-57-9, Temocapril  
 112665-43-7, Seratrodist 112887-68-0, Tomudex 113359-04-9, Cefozopran  
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 Nadifloxacin

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (drug precursor)

IT 126595-07-1, Propagermanium 127045-41-4, Pazufloxacin 127779-20-8,  
 Saquinavir 129927-33-9, NS21 134523-00-5, Atorvastatin 134678-17-4,  
 Lamivudine 135062-02-1, Repaglinide 135889-00-8, Cefcapene  
 136310-93-5, Tiotropiumbromide 144412-49-7, Lamifiban 147059-72-1,  
 Trovafloxacin 153196-03-3 158966-92-8, Montelukast

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (drug precursor)

IT 80-72-8, Reductic acid 94-53-1, Piperonylic acid 138-39-6, Mafenide  
 7683-59-2 87726-17-8, Panipenem 99450-52-9

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (drug precursor; synthesis, activity and formulations of pharmaceutical  
 compds. for treatment of oxidative stress and/or endothelial  
 dysfunction)

IT 9015-82-1

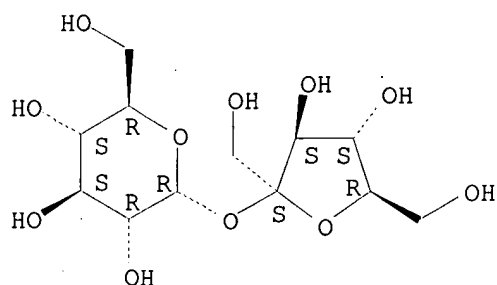
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL  
 (Biological study); PROC (Process)  
 (inhibitors; synthesis, activity and formulations of pharmaceutical  
 compds. for treatment of oxidative stress and/or endothelial  
 dysfunction)

IT 301838-00-6P, NCX 2164 301838-02-8P 301838-03-9P 301838-28-8P, NCX  
 2121 302543-75-5P, NCX 2101 302543-76-6P, NCX 2111 302543-77-7P, NCX  
 2131 302543-78-8P, NCX 2210 302543-79-9P, NCX 2216 302543-80-2P, NCX  
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 2213 302543-96-0P, NCX 2138 302543-97-1P, NCX 2215 302543-98-2P, NCX  
 2061

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or  
 effector, except adverse); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);  
 PREP (Preparation); USES (Uses)

- (synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)
- IT 52-90-4, L-Cysteine, reactions 53-86-1, Indomethacin 89-57-6, Mesalamine 103-90-2, Paracetamol 321-64-2, Tacrine 18683-91-5, Ambroxol 59122-46-2, Misoprostol 66376-36-1, Alendronic acid 73590-58-6, Omeprazole 164790-49-2
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
- (synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)
- IT 50-81-7, Ascorbic acid, reactions 70-18-8, Glutathione, reactions 77-92-9, reactions 89-65-6, Isoascorbic acid 117-39-5, Quercetin 120-05-8, Sulphuretin 121-34-6, Vanillic acid 123-31-9, 1,4-Benzenediol, reactions 149-91-7, Gallic acid, reactions 154-23-4, Catechin 303-45-7, Gossypol 327-97-9, Chlorogenic acid 331-39-5, Caffeic acid 492-27-3, Kynurenic acid 500-38-9, Nordihydroguaiaretic acid 520-18-3, Kaempferol 530-57-4, Syringic acid 584-85-0, Anserine 1078-61-1, Hydrocaffeic acid 3211-76-5, Selenomethionine 3614-08-2, Selenocysteine 7400-08-0, p-Coumaric acid 92614-59-0, Glutathione ethyl ester 97451-46-2, Glutathione isopropyl ester
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)
- IT 2623-87-2P, 4-Bromobutyric acid 301669-90-9P 301838-04-0P 301838-05-1P 301838-06-2P 301838-07-3P 301838-08-4P 301838-09-5P 301838-10-8P 301838-11-9P 301838-12-0P 301838-14-2P 301838-15-3P 301838-16-4P 301838-17-5P 301838-18-6P 301838-19-7P 301838-20-0P 301838-21-1P 301838-23-3P 301838-24-4P 301838-25-5P 301838-27-7P
- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- (synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)
- IT 50-78-2 52-67-5, Penicillamine 59-67-6, Nicotinic acid, reactions 69-53-4, Ampicillin 110-52-1, 1,4-Dibromobutane 305-84-0, L-Carnosine 479-18-5, Diphylline 490-79-9, Gentisic acid 525-66-6 914-00-1, Methacycline 927-58-2, 4-Bromobutyl chloride 1135-24-6, Ferulic acid 3447-95-8, Benfurodil hemisuccinate 5104-49-4, Flurbiprofen 15307-86-5, Diclofenac 15537-71-0, n-Acetylpenicillamine 15687-27-1, Ibuprofen 18559-94-9, Salbutamol 22204-53-1 23214-92-8, Doxorubicin 26117-28-2, n-Acetyl-D-cysteine 36322-90-4, Piroxicam 59277-89-3, Aciclovir 75847-73-3, Enalapril 79902-63-9, Simvastatin 83881-51-0, Cetirizine 113665-84-2, Clopidogrel 119222-62-7 301669-82-9
- RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
- (synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)
- IT 57-50-1, reactions 138-52-3, Salicin 632-00-8, Sulfasomizole 987-78-0, Citicoline 1403-66-3, Gentamicin 9005-49-6, Dalteparin, reactions 9041-08-1, Reviparin sodium 18378-89-7, Plicamycin 56180-94-0, Acarbose
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (drug precursor)
- RN 57-50-1 HCAPLUS
- CN .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl (9CI) (CA INDEX NAME)

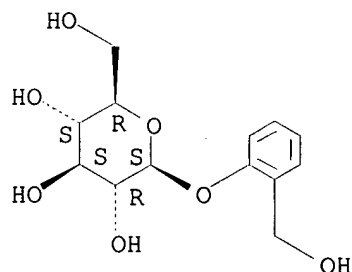
Absolute stereochemistry.



RN 138-52-3 HCAPLUS

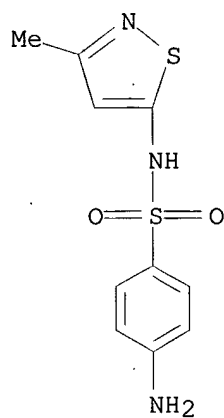
CN .beta.-D-Glucopyranoside, 2-(hydroxymethyl)phenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 632-00-8 HCAPLUS

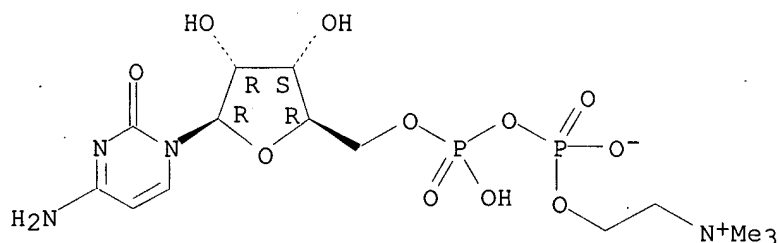
CN Benzenesulfonamide, 4-amino-N-(3-methyl-5-isothiazolyl)- (9CI) (CA INDEX NAME)



RN 987-78-0 HCAPLUS

CN Cytidine 5'-(trihydrogen diphosphate), P'-[2-(trimethylammonio)ethyl] ester, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 1403-66-3 HCAPLUS  
CN Gentamicin (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9005-49-6 HCAPLUS  
CN Heparin (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

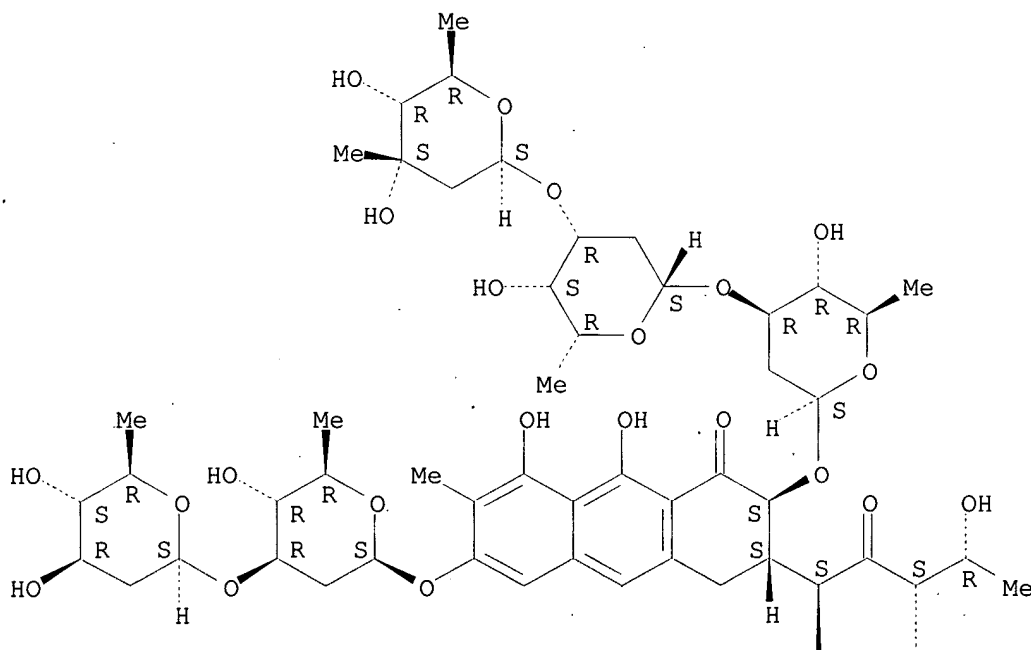
RN 9041-08-1 HCAPLUS  
CN Heparin, sodium salt (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 18378-89-7 HCAPLUS  
CN D-threo-2-Pentulose, 5-deoxy-1-C-[(2S,3S)-7-[[[2,6-dideoxy-3-O-(2,6-dideoxy-.beta.-D-arabino-hexopyranosyl)-.beta.-D-arabino-hexopyranosyl]oxy]-3-[(O-2,6-dideoxy-3-C-methyl-.beta.-D-ribo-hexopyranosyl-(1.fwdarw.3)-O-2,6-dideoxy-.beta.-D-lyxo-hexopyranosyl-(1.fwdarw.3)-2,6-dideoxy-.beta.-D-arabino-hexopyranosyl)oxy]-1,2,3,4-tetrahydro-5,10-dihydroxy-6-methyl-4-oxo-2-anthracenyl]-1-O-methyl-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

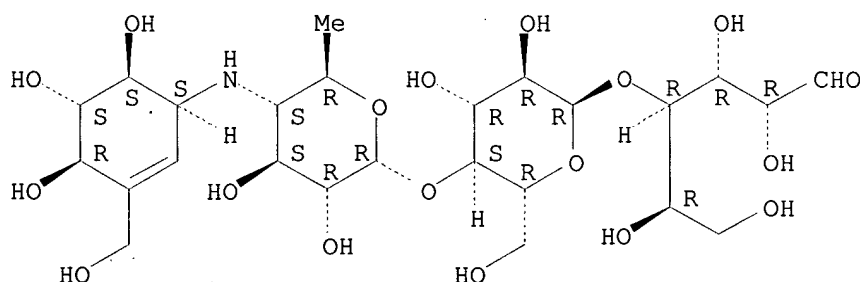


PAGE 2-A



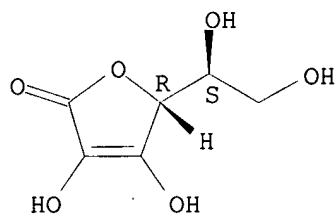
RN 56180-94-0 HCAPLUS  
 CN D-Glucose, O-4,6-dideoxy-4-[[[(1S,4R,5S,6S)-4,5,6-trihydroxy-3-(hydroxymethyl)-2-cyclohexen-1-yl]amino]-.alpha.-D-glucopyranosyl-(1.fwdarw.4)-O-.alpha.-D-glucopyranosyl-(1.fwdarw.4)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

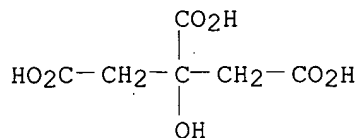


IT 50-81-7, Ascorbic acid, reactions 77-92-9, reactions 331-39-5, **Caffeic acid**  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (synthesis, activity and formulations of pharmaceutical compds. for treatment of oxidative stress and/or endothelial dysfunction)  
 RN 50-81-7 HCAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

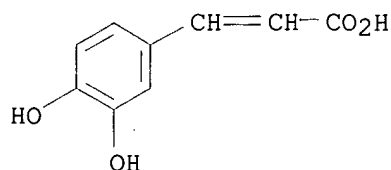


RN 77-92-9 HCAPLUS  
 CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 331-39-5 HCAPLUS  
 CN 2-Propenoic acid, 3-(3,4-dihydroxyphenyl)- (9CI) (CA INDEX NAME)





L161 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:144699 HCAPLUS

DN 132:198847

TI Hair conditioning compositions containing silicones and quaternary ammonium compounds

IN Pyles, Daniel Raymond

PA Unilever PLC, UK; Unilever NV; Hindustan Lever Limited

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-50

ICS A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000010524	A1	20000302	WO 1999-EP6096	19990818
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 6136304	A	20001024	US 1998-138229	19980821
	US 6207141	B1	20010327	US 1999-357454	19990720
	CA 2340646	AA	20000302	CA 1999-2340646	19990818
	AU 9959699	A1	20000314	AU 1999-59699	19990818
	BR 9913155	A	20010515	BR 1999-13155	19990818
	EP 1105093	A1	20010613	EP 1999-967820	19990818
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2002523349	T2	20020730	JP 2000-565846	19990818
PRAI	US 1998-138229	A	19980821		
	US 1999-357454	A	19990720		
	WO 1999-EP6096	W	19990818		
AB	A method of imparting improved conditioning properties to hair comprising treating the hair with a conditioning compn. comprising a silicone compd. having at least one quaternary ammonium moiety and ethoxylated monoalkyl quat. For example, a hair conditioning formulation contg. 2.5% PEG-2 olealmonium chloride and 2% Quaternium-80 was superior to the formulation contg. 2% Quaternium-80 only.				
ST	polysilicone quaternary ammonium compd hair conditioner				
IT	Alcohols, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(C16-18, ethoxylated; hair conditioning compns. contg. silicones and quaternary ammonium compds.)				
IT	<b>Quaternary ammonium compounds, biological studies</b>				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES				

- (Uses)  
(bis(hydroxyethyl)methyltallow alkyl, ethoxylated, **chlorides**;  
hair conditioning compns. contg. silicones and quaternary ammonium  
compds.)
- IT **Quaternary ammonium compounds, biological studies**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(coco alkylbis(hydroxyethyl)methyl, ethoxylated, **chlorides**;  
hair conditioning compns. contg. silicones and quaternary ammonium  
compds.)
- IT Hair preparations  
(conditioners; hair conditioning compns. contg. silicones and  
quaternary ammonium compds.)
- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-  
hydroxypropoxy]propyl group-terminated, acetates (salts), Abil-Quat  
3270; hair conditioning compns. contg. silicones and quaternary  
ammonium compds.)
- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-  
hydroxypropoxy]propyl group-terminated, acetates (salts); hair  
conditioning compns. contg. silicones and quaternary ammonium compds.)
- IT **Quaternary ammonium compounds, biological studies**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(ethoxylated monoalkyl; hair conditioning compns. contg. silicones and  
quaternary ammonium compds.)
- IT Stabilizing agents  
(foam; hair conditioning compns. contg. silicones and quaternary  
ammonium compds.)
- IT **Buffers**  
Dyes  
Humectants  
Odor and Odorous substances  
Perfumes  
Preservatives  
Softening agents  
Thickening agents  
(hair conditioning compns. contg. silicones and quaternary ammonium  
compds.)
- IT Acids, biological studies  
Bases, biological studies  
Salts, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair conditioning compns. contg. silicones and quaternary ammonium  
compds.)
- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(quaternary ammonium group-contg.; hair conditioning compns. contg.  
silicones and quaternary ammonium compds.)
- IT Amides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(tallow, hydrogenated, phthalic acid; hair conditioning compns. contg.  
silicones and quaternary ammonium compds.)
- IT 9011-16-9, Maleic anhydride-methyl vinyl ether copolymer  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(crosslinked; hair conditioning compns. contg. silicones and quaternary ammonium compds.)

IT 57-55-6, Propylene glycol, biological studies 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological studies  
**77-92-9, Citric acid**, biological studies  
 110-80-5, Ethylene glycol monoethyl ether 111-76-2, 2-Butoxyethanol  
 111-77-3, Diethylene glycol monomethyl ether 111-90-0, Diethylene glycol monoethyl ether **112-02-7, Cetrimonium chloride** 112-92-5,  
 Stearyl alcohol 1310-73-2, Sodium hydroxide, biological studies  
 1320-67-8, Propylene glycol monomethyl ether 3844-45-9, FD&C Blue No. 1  
 4065-45-6, Benzophenone 4 6440-58-0, DMDM hydantoin 7447-40-7,  
 Potassium chloride, biological studies 9000-01-5, Gum arabic  
**9000-30-0, Guar gum 9004-58-4, Hydroxyethyl ethyl**  
**cellulose 9004-62-0, Hydroxyethyl cellulose 9004-64-2,**  
**Hydroxypropyl cellulose 9004-65-3, Hydroxypropyl methyl**  
**cellulose 9004-67-5, Methyl cellulose 9016-45-9, Polyethylene**  
**glycol nonyl phenyl ether 9041-56-9, Hydroxybutyl methyl cellulose**  
**11138-66-2, Xanthan gum 20182-63-2, Stearamidopropyl**  
**dimethylamine 28724-32-5, PEG-15 stearamonium chloride 28880-55-9**  
**36653-82-4, Cetyl alcohol 52125-53-8, Propylene glycol monoethyl ether**  
**55965-84-9, Kathon CG 72300-24-4,**  
**Isostearamidopropyl morpholine lactate 81859-24-7,**  
**Polyquaternium 10 259856-51-4, Crodarom Complex HC**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(hair conditioning compns. contg. silicones and quaternary ammonium compds.)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

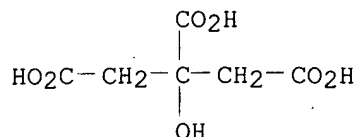
- (1) Janchitraonvej, B; US 5328685 A 1994 HCAPLUS
- (2) Oreal; FR 2548019 A 1985 HCAPLUS
- (3) Oreal; EP 0761206 A 1997 HCAPLUS
- (4) R & C Products PTY Ltd; GB 2316615 A 1998 HCAPLUS

IT **77-92-9, Citric acid**, biological studies  
**112-02-7, Cetrimonium chloride 9000-30-0, Guar gum**  
**9004-58-4, Hydroxyethyl ethyl cellulose 9004-62-0,**  
**Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose**  
**9004-65-3, Hydroxypropyl methyl cellulose 9004-67-5,**  
**Methyl cellulose 11138-66-2, Xanthan gum 55965-84-9,**  
**Kathon CG 81859-24-7, Polyquaternium 10**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(hair conditioning compns. contg. silicones and quaternary ammonium compds.)

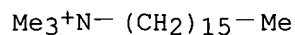
RN 77-92-9 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 112-02-7 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 9000-30-0 HCAPLUS  
CN Guar gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-58-4 HCAPLUS  
CN Cellulose, ethyl 2-hydroxyethyl ether (9CI) (CA INDEX NAME)

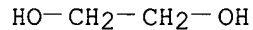
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CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

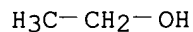
CM 2

CRN 107-21-1  
CMF C2 H6 O2



CM 3

CRN 64-17-5  
CMF C2 H6 O



RN 9004-62-0 HCAPLUS  
CN Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)

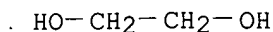
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CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 107-21-1  
CMF C2 H6 O2



RN 9004-64-2 HCAPLUS  
CN Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)

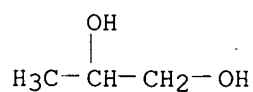
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CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 57-55-6  
CMF C3 H8 O2



RN 9004-65-3 HCAPLUS  
CN Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)

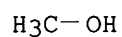
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CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

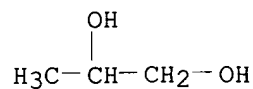
CM 2

CRN 67-56-1  
CMF C H4 O



CM 3

CRN 57-55-6  
CMF C3 H8 O2



RN 9004-67-5 HCAPLUS  
CN Cellulose, methyl ether (8CI, 9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 67-56-1

CMF C H4 O

H<sub>3</sub>C-OH

RN 11138-66-2 HCAPLUS

CN Xanthan gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

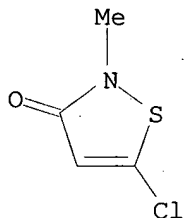
RN 55965-84-9 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (9CI) (CA INDEX NAME)

CM 1

CRN 26172-55-4

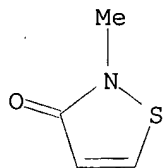
CMF C4 H4 Cl N O S



CM 2

CRN 2682-20-4

CMF C4 H5 N O S



RN 81859-24-7 HCAPLUS

CN Cellulose, 2-hydroxyethyl 2-[2-hydroxy-3-(trimethylammonio)propoxy]ethyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride (9CI) (CA INDEX NAME)

CM 1

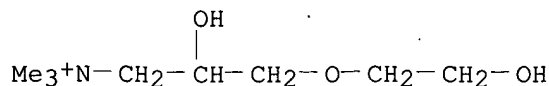
CRN 170553-71-6

CMF C8 H20 N O3 . x C6 H16 N O2 . x C2 H6 O2 . x Unspecified

CM 2

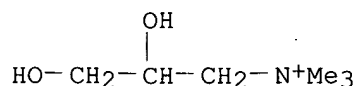
CRN 170344-46-4

CMF C8 H20 N O3



CM 3

CRN 44814-66-6  
CMF C6 H16 N O2



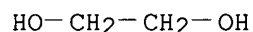
CM 4

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 107-21-1  
CMF C2 H6 O2



L161 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 2000:144692 HCAPLUS

DN 132:185242

TI Hair lightening and highlighting compositions containing peroxy compounds

IN Newell, Gerald Patrick; Pyles, Daniel Raymond

PA Unilever PLC, UK; Unilever NV; Hindustan Lever Limited

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-06

ICS A61K007-50; A61K007-135

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000010515	A1	20000302	WO 1999-EP6097	19990818
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,				

ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6274126	B1	20010814	US 1998-138189	19980821
CA 2340699	AA	20000302	CA 1999-2340699	19990818
AU 9959700	A1	20000314	AU 1999-59700	19990818
BR 9913156	A	20010515	BR 1999-13156	19990818
EP 1105086	A1	20010613	EP 1999-967819	19990818

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO

JP 2002523343	T2	20020730	JP 2000-565838	19990818
ZA 2001001262	A	20020326	ZA 2001-1262	20010214
US 2002076388	A1	20020620	US 2001-23005	20011217

PRAI US 1998-138189 A 19980821  
 WO 1999-EP6097 W 19990818  
 US 2000-558235 A3 20000424

OS MARPAT 132:185242

AB There is described a conditioning compn. for conditioning, lightening and highlighting hair which comprises: (i) a peroxy compd.; and (ii) a conditioning agent, said compn. having a pH of .ltoreq.5. There is also described a method for conditioning lightening and highlighting hair which comprises treating the hair with a compn. of the invention. Thus, a compn. contained hydroxyethyl cellulose 1.30, PEG olealmonium chloride (69%) and propylene glycol (31%) 2.50, propylene glycol 1.50, cetrimonium chloride (30%) 2.00, liq. **citric acid** 50% 1.00, Quaternium-80 50% 2.00, FD&C Blue No. 1 (1%) 0.05, disodium EDTA 0.10, **Kathon CG** 0.05, DMDM hydantoin 0.10, fragrance 0.40, Polysorbate-20 0.40, and H2O2 35% 4.00% and water qs.

ST peroxy compd hair lightening; quaternary ammonium peroxy hair

IT **Quaternary ammonium compounds, biological studies**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 ((hydrogenated tallow alkyl)trimethyl, **chlorides**; hair  
 lightening and highlighting compns. contg. peroxy compds.)

IT **Quaternary ammonium compounds, biological studies**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (bis(hydrogenated tallow alkyl)dimethyl, Me sulfates; hair lightening  
 and highlighting compns. contg. peroxy compds.)

IT **Quaternary ammonium compounds, biological studies**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (bis(hydrogenated tallow alkyl)dimethyl, **chlorides**; hair  
 lightening and highlighting compns. contg. peroxy compds.)

IT Hair preparations  
 (conditioners; hair lightening and highlighting compns. contg. peroxy  
 compds.)

IT Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-  
 hydroxypropoxy]propyl group-terminated, acetates (salts); hair  
 lightening and highlighting compns. contg. peroxy compds.)

IT Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (di-Me, quaternary ammonium group-contg; hair lightening and  
 highlighting compns. contg. peroxy compds.)

IT Cyclosiloxanes  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (di-Me; hair lightening and highlighting compns. contg. peroxy compds.)

IT **Quaternary ammonium compounds, biological studies**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES



- (Uses)  
(dimethylditalallow alkyl, **chlorides**; hair lightening and highlighting compns. contg. peroxy compds.)
- IT Hair preparations  
(dyes; hair lightening and highlighting compns. contg. peroxy compds.)
- IT Cosmetics  
(emollients; hair lightening and highlighting compns. contg. peroxy compds.)
- IT Hair preparations  
Humectants  
Odor and Odorous substances  
Perfumes  
Preservatives  
Shampoos  
Thickening agents  
(hair lightening and highlighting compns. contg. peroxy compds.)
- IT Amine oxides  
Polysiloxanes, biological studies  
Salts, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair lightening and highlighting compns. contg. peroxy compds.)
- IT **Quaternary ammonium compounds, biological studies**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(trimethyltallow alkyl, Me sulfates, hydrogenated; hair lightening and highlighting compns. contg. peroxy compds.)
- IT **Quaternary ammonium compounds, biological studies**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(trimethyltallow alkylammonium **chlorides**; hair lightening and highlighting compns. contg. peroxy compds.)
- IT 9011-16-9, Maleic anhydride-methyl vinyl ether copolymer  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(crosslinked; hair lightening and highlighting compns. contg. peroxy compds.)
- IT 57-09-0, Cetrimonium bromide 57-55-6, Propylene glycol, biological studies 104-74-5, Laurylpyridinium chloride 107-46-0, Hexamethyldisiloxane 107-64-2, Distearyltrimethylammonium chloride 112-00-5, Lauryltrimethylammonium chloride 112-02-7, Palmityltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 122-18-9, Cetyltrimethylammonium chloride 123-03-5, Cetylpyridinium chloride 138-32-9, Cetrimonium tosylate 139-07-1, Lauryldimethylbenzylammonium chloride 1812-53-9, Dicyltrimethylammonium chloride 3401-74-9, **Dilauryldimethylammonium chloride** 7722-84-1, Hydrogen peroxide, biological studies 9000-01-5, Gum arabic 9000-30-0, Guar gum 9004-58-4, Hydroxyethyl ethylcellulose 9004-62-0, Hydroxyethylcellulose 9004-64-2, Hydroxypropylcellulose 9004-65-3, HPMC 9004-67-5, Methyl cellulose 9006-65-9, Dimethicone 9041-56-9, Hydroxybutyl methyl cellulose 11138-66-2, Xanthan gum 15809-05-9, Eicosyltrimethylammonium chloride 17301-53-0, Behenyltrimethylammonium chloride 28880-55-9 35239-12-4, Tris(2-hydroxyethyl)stearyltrimethylammonium chloride 37139-99-4, Oleyltrimethylbenzylammonium chloride 81646-13-1, Behenyltrimethylammonium methosulfate  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair lightening and highlighting compns. contg. peroxy compds.)
- IT 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric acid, uses

RL: NUU (Other use, unclassified); USES (Uses)

(hair lightening and highlighting compns. contg. peroxy compds.)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Curtis Helene Ind Inc; GB 2170830 A 1986 HCAPLUS

(2) Dow Corning; EP 0829257 A 1998 HCAPLUS

(3) Kao Corp; JP 09227347 A 1997 HCAPLUS

(4) Richardson Vicks Inc; EP 0218931 A 1987 HCAPLUS

(5) Wella AG; EP 0356665 A 1990 HCAPLUS

IT 57-09-0, Cetrimonium bromide 107-64-2,  
Distearyldimethylammonium chloride 112-00-5,  
Lauryltrimethylammonium chloride 112-02-7,  
Palmityltrimethylammonium chloride 112-03-8,  
Stearyltrimethylammonium chloride 122-18-9,  
Cetyltrimethylbenzylammonium chloride 139-07-1,  
Lauryldimethylbenzylammonium chloride 1812-53-9,  
Dicetyltrimethylammonium chloride 3401-74-9,  
Dilauryldimethylammonium chloride 9000-30-0,  
Guar gum 9004-58-4, Hydroxyethyl ethylcellulose  
9004-62-0, Hydroxyethylcellulose 9004-64-2,  
Hydroxypropylcellulose 9004-65-3, HPMC 9004-67-5,  
Methyl cellulose 11138-66-2, Xanthan gum 17301-53-0,  
Behenyltrimethylammonium chloride

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(hair lightening and highlighting compns. contg. peroxy compds.)

RN 57-09-0 HCAPLUS

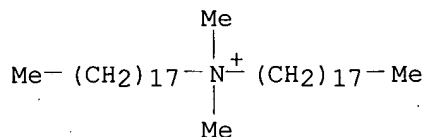
CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{15}-\text{Me}$

●  $\text{Br}^-$

RN 107-64-2 HCAPLUS

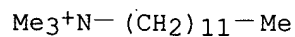
CN 1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



●  $\text{Cl}^-$

RN 112-00-5 HCAPLUS

CN 1-Dodecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



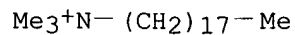
RN 112-02-7 HCAPLUS

CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



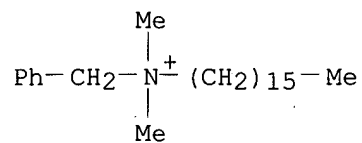
RN 112-03-8 HCAPLUS

CN 1-Octadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



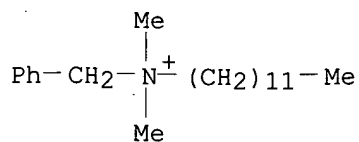
RN 122-18-9 HCAPLUS

CN Benzenemethanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

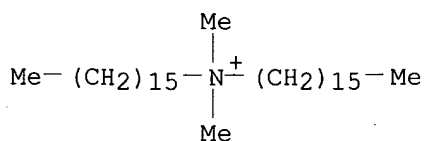


RN 139-07-1 HCAPLUS

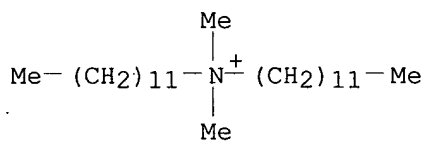
CN Benzenemethanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 1812-53-9 HCAPLUS  
 CN 1-Hexadecanaminium, N-hexadecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 3401-74-9 HCAPLUS  
 CN 1-Dodecanaminium, N-dodecyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 9000-30-0 HCAPLUS  
 CN Guar gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-58-4 HCAPLUS  
 CN Cellulose, ethyl 2-hydroxyethyl ether (9CI) (CA INDEX NAME)

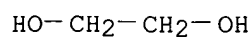
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CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

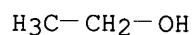
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 107-21-1  
 CMF C2 H6 O2



CM 3

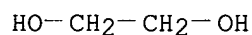
CRN 64-17-5  
CMF C2 H6 ORN 9004-62-0 HCAPLUS  
CN Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

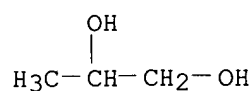
CRN 107-21-1  
CMF C2 H6 O2RN 9004-64-2 HCAPLUS  
CN Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 57-55-6  
CMF C3 H8 O2RN 9004-65-3 HCAPLUS  
CN Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6  
CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 67-56-1

CMF C H4 O

 $\text{H}_3\text{C}-\text{OH}$ 

CM 3

CRN 57-55-6

CMF C3 H8 O2

$$\begin{array}{c} \text{OH} \\ | \\ \text{H}_3\text{C}-\text{CH}-\text{CH}_2-\text{OH} \end{array}$$

RN 9004-67-5 HCAPLUS

CN Cellulose, methyl ether (8CI, 9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 67-56-1

CMF C H4 O

 $\text{H}_3\text{C}-\text{OH}$ 

RN 11138-66-2 HCAPLUS

CN Xanthan gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 17301-53-0 HCAPLUS

CN 1-Docosanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

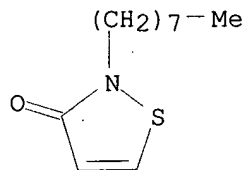
 $\text{Me}_3^+\text{N}-(\text{CH}_2)_{21}-\text{Me}$  $\text{Cl}^-$

AN 1999:659467 HCAPLUS  
 DN 131:287818  
 TI Antifoulant compositions and methods of treating wood  
 IN Blum, Melvin; Roitberg, Michael  
 PA Burlington Bio-Medical & Scientific Corp., USA  
 SO PCT Int. Appl., 15 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C09D005-16  
 ICS C09D015-00; A01N033-12; A01N055-02; B27K003-50; B27K005-00  
 CC 42-10 (Coatings, Inks, and Related Products)  
 Section cross-reference(s): 43

FAN.CNT 1

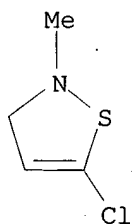
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9951694	A1	19991014	WO 1999-US7576	19990407
	W:				
	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP,				
	KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,				
	NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,				
	UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,				
	ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,				
	CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6207290	B1	20010327	US 1998-55785	19980407
	AU 9934755	A1	19991025	AU 1999-34755	19990407
	EP 1070102	A1	20010124	EP 1999-916435	19990407
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, FI				
PRAI	US 1998-55785	A	19980407		
	WO 1999-US7576	W	19990407		
AB	The compns. include 10,10'-oxybisphenoxarsine (I), arsanilic acid, roxarsone, Me arsonate, monomethyl arsinic acid, monosodium Me arsonate, cacodylic acid and/or phenarsazine oxide with a quaternary ammonium salt. The antifoulant compns. may also include adjuvants such as fungicides, UV absorbers, and antioxidants. The antifoulant compns. can be used in fresh or sea water paints. In addn., the antifoulant compn. may be used to stain or impregnate wood, thus preserving the wood. Thus, a coating was made from a mixt. of A 15 16, a rosin 6, cuprous oxide 30, I and a denatonium salt (0.1%) 2, a chlorinated paraffin 5, ZnO 3, a solvent mixt. 28 and TiO2 and silica mixt. 10%.				
ST	wood paint oxybisphenoxarsine antifoulant; antifouling coating wood sea material				
IT	Antifouling agents Antioxidants Coating process Fungicides UV stabilizers Wood (antifoulant compns. and methods of treating wood)				
IT	Acrylic polymers, uses Polyamides, uses RL: BUU (Biological use, unclassified); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses) (antifoulant compns. and methods of treating wood)				
IT	<b>Quaternary ammonium compounds, uses</b> Tannins Tocopherols RL: MOA (Modifier or additive use); USES (Uses) (antifoulant compns. and methods of treating wood)				
IT	Coating materials (antifouling; antifoulant compns. and methods of treating wood)				

- IT 9003-22-9, Chloroethylene-vinyl acetate polymer  
RL: BUU (Biological use, unclassified); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(A 15; antifoulant compns. and methods of treating wood)
- IT 58-36-6, 10,10'-Oxybisphenoxarsine 75-60-5, Cacodylic acid 98-50-0, Arsanilic acid 121-19-7, Roxarsone 124-58-3 2163-80-6, Monosodium methyl arsonate 3380-34-5, Triclosan 4095-45-8 5707-51-7, 1,2-Benzisothiazoline 26530-20-1 56960-31-7, Arsinic acid, methyl- 87701-39-1 151237-41-1 161943-35-7  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(antifoulant compns. and methods of treating wood)
- IT 25135-99-3, Ethene, tetrachloro-, homopolymer  
RL: BUU (Biological use, unclassified); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(antifoulant compns. and methods of treating wood)
- IT 50-81-7, L-Ascorbic acid, uses 57-10-3, Hexadecanoic acid, uses 64-18-6, Formic acid, uses 73-78-9, Lidocaine hydrochloride 77-92-9, uses 79-09-4, Propanoic acid, uses 91-53-2, Ethoxyquin 110-16-7, 2-Butenedioic acid (2Z)-, uses 137-58-6, Lidocaine 137-66-6, Ascorbyl palmitate 149-91-7, Gallic acid, uses 462-20-4 1034-01-1, Octyl gallate 1166-52-5, Dodecyl gallate 1674-99-3, Denatonium chloride 2495-84-3, Ascorbyl oleate 3658-72-8 3734-33-6, Denatonium benzoate 6829-55-6, Tocotrienol 11042-64-1, .gamma.-Oryzanol 25395-66-8, Ascorbyl stearate 28474-90-0, Ascorbyl dipalmitate 86404-04-8 90823-38-4, Denatonium saccharide 246232-53-1, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(antifoulant compns. and methods of treating wood)
- RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Kansai Paint Co Ltd; JP 53028632 A 1978 HCAPLUS  
(2) Rohm and Haas Company; EP 0745325 A 1996 HCAPLUS  
(3) Wolfgang, W; US 5118346 A 1992 HCAPLUS
- IT 26530-20-1 87701-39-1 151237-41-1 161943-35-7  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(antifoulant compns. and methods of treating wood)
- RN 26530-20-1 HCAPLUS
- CN 3(2H)-Isothiazolone, 2-octyl- (9CI) (CA INDEX NAME)

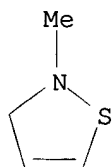


- RN 87701-39-1 HCAPLUS
- CN Isothiazole, 5-chloro-2,3-dihydro-2-methyl- (9CI) (CA INDEX NAME)

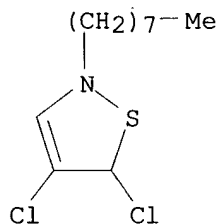




RN 151237-41-1 HCAPLUS  
 CN Isothiazole, 2,3-dihydro-2-methyl- (9CI) (CA INDEX NAME)

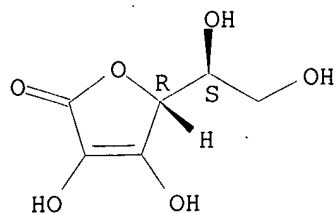


RN 161943-35-7 HCAPLUS  
 CN Isothiazole, 4,5-dichloro-2,5-dihydro-2-octyl- (9CI) (CA INDEX NAME)

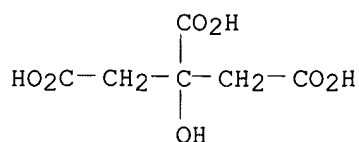


IT 50-81-7, L-Ascorbic acid, uses 77-92-9, uses  
 110-16-7, 2-Butenedioic acid (2Z)-, uses 137-66-6,  
 Ascorbyl palmitate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (antifoulant compns. and methods of treating wood)  
 RN 50-81-7 HCAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

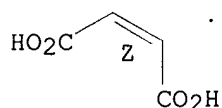


RN 77-92-9 HCAPLUS  
 CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



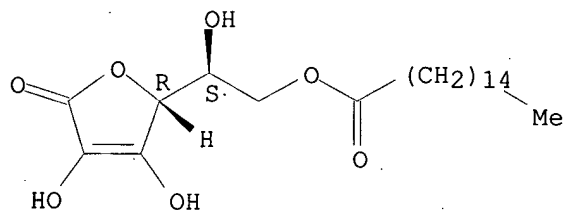
RN 110-16-7 HCAPLUS  
CN 2-Butenedioic acid (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 137-66-6 HCAPLUS  
CN L-Ascorbic acid, 6-hexadecanoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L161 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:450886 HCAPLUS

DN 131:106598

TI Awapuhi (Zingiber zerumbet)-containing hair cleansing and conditioning compositions, and their production

IN Kern, Dale G.; Lephart, Janet Faye

PA Nu Skin International, Inc., USA

SO U.S., 9 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM C11D003-38

ICS C11D007-045; C11D007-50; A61K007-06

NCL 510463000

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5925615	A	19990720	US 1998-36531	19980306
PRAI	US 1998-36531		19980306		

AB A cleansing and conditioning shampoo compn. is described that contains an ext. of shampoo ginger or awapuhi, Zingiber zerumbet. Other ingredients include water, surfactants, conditioning agents, thickening agents, stabilizers, preservatives, pH adjusting agents, fragrance, and color. Methods of use and methods of making the shampoo compn. are also described. A hair conditioner compn. contg. awapuhi ext., and methods of making and using thereof are also described. A hair conditioning shampoo contg. ammonium lauryl sulfate 15, decyl glucoside 12, Zingiber zerumbet

ext. 10, Na laureth sulfate 4.5, polyglyceryl-6-distearate 3, cocamide DEA 2.68, cocamidopropyl betaine 1.5, dimethiconol 1, fragrance 0.4, guar hydroxypropyltrimonium chloride 0.2, panthenol 0.1, **citric acid** 0.03, **methylchloroisothiazolinone** 0.00081, chlorophyllin-Cu complex 0.0004, **methylisothiazolinone** 0.00025, and water q.s. to 100 % was prepd.

ST hair shampoo conditioner Zingiber ext

IT Amides, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(N-(hydroxyalkyl), foam boosting agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Jojoba oil

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(PEG esters, conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Alcohols, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(aliph., conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Carboxylic acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(alkoxylated, conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Glycosides

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(alkyl, cleansing agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT **Quaternary ammonium compounds, biological studies**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(alkylbenzyl dimethyl, **chlorides**, conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Sulfates, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cleansing agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Amides, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(coco, N,N-bis(hydroxyethyl), foam boosting agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Hair preparations

(conditioners; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Glycerides, biological studies

**Quaternary ammonium compounds, biological studies**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Shampoos

(conditioning; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT Chlorophyllins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(copper complex, stabilizer; shampoo or hair conditioner compns. contg.

- Zingiber zerumbet exts.)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen polysiloxane-, conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT Cyclosiloxanes  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(fatty, emulsion stabilizer; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT Gums and Mucilages  
(mayara, thickening agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT Ginger (Zingiber zerumbet)  
Shampoos  
(shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT Carbohydrates, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(thickening agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT 107-43-7D, coco amidopropyl deriv.  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(Coco amidopropyl betaines, foam boosting agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT 17301-53-0, Behenyltrimethylammonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(anti-static agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT 151-21-3, Sodium lauryl sulfate, biological studies 2235-54-3, Ammonium lauryl sulfate 3097-08-3, Magnesium lauryl sulfate 9004-82-4, Sodium laureth sulfate 27836-64-2, Lauryl glucoside 32612-48-9, Ammonium laureth sulfate 58846-77-8, Decyl glucoside 62755-21-9  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(cleansing agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)
- IT 57-09-0, Cetrimonium bromide 57-55-6, 1,2-Propanediol, biological studies 79-06-1D, Acrylamide, copolymers 79-10-7D, Acrylic acid, polymers with C10-30 alkyl acrylates 81-13-0, Panthenol 112-02-7, Cetrimonium chloride 122-19-0, Stearalkonium chloride 9004-99-3, Polyethylene glycol stearate 9005-08-7 9006-65-9, Dimethicone 9016-00-6, Poly[oxy(dimethylsilylene)] 11094-60-3, Decaglyceryl decaoleate 25265-75-2, Butylene glycol 31692-79-2, Dimethiconol 34424-97-0, Hexaglyceryl distearate 37309-58-3, Polydecene 51145-31-4, Tricetylamine hydrochloride 74563-64-7, Phytantriol 81646-13-1, Behenyltrimethylammonium methyl sulfate 81859-24-7, Polyquaternium-10 90249-84-6, Hexaglycerin oleate 95482-05-6, Hexaglycerin hexaoleate 115515-88-3, Decaglycerin stearate 195868-36-1, Phenyltrimethicone

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT 112-92-5, Stearyl alcohol 36653-82-4, Cetyl alcohol  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(emulsion stabilizer; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT 120-40-1, Lauramide DEA 142-26-7, Acetamide MEA 13197-76-7, Lauryl hydroxysultaine  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(foam boosting agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT 77-92-9, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(pH-adjusting agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT 94-13-3, Propylparaben 99-76-3, Methylparaben 2682-20-4  
26172-55-4 78491-02-8, Diazolidinyl urea  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(preservatives; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT 7440-50-8D, Copper, chlorophyllin complexes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(stabilizer; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

IT 9004-65-3, Hydroxypropylmethylcellulose 9004-67-5,  
Methylcellulose 11138-66-2, Xanthan gum 65497-29-2, Guar  
hydroxypropyltrimonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(thickening agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

- (1) Anon; Product Alert 1988, V18(30)
- (2) Anon; Product Alert 1992, V22
- (3) Anon; Product Alert 1992, V22, P34
- (4) Anon; Product Alert 1994, V24(3)
- (5) Carroll, M; Sales & Marketing Management (Successful Meeting) 1993, V145(6), P35
- (6) Epstein; US 5826546 1998 HCAPLUS
- (7) Govindarajan, V; Chemistry, Technology, and Quality Evaluation: Part 2, Critical Reviews in Food Science and Nutrition 1982, V17(3), P189 HCAPLUS
- (8) Kumar; US 5597557 1997 HCAPLUS
- (9) Olatunji, O; Notes from the Royal Botanic Garden Edinburgh 1980, V38(3), P499
- (10) Oliveros, M; Int J Crude Drug Res 1982, V20(3), P141 HCAPLUS
- (11) Varma, S; Proc Natl Acad Sci India, Section B (Biological Sciences) 1991, V61 (B) (IV), P445

IT 17301-53-0, Behenyltrimethylammonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(anti-static agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)

RN 17301-53-0 HCAPLUS  
CN 1-Docosanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{21}-\text{Me}$

●  $\text{Cl}^-$

IT 57-09-0, Cetrimonium bromide 112-02-7, Cetrimonium chloride 122-19-0, Stearalkonium chloride 81859-24-7, Polyquaternium-10  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (conditioning agent; shampoo or hair conditioner compns. contg. Zingiber zerumbet exts.)  
 RN 57-09-0 HCAPLUS  
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{15}-\text{Me}$

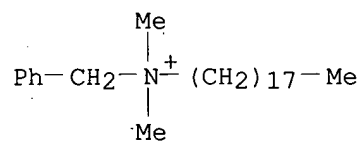
●  $\text{Br}^-$

RN 112-02-7 HCAPLUS  
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$\text{Me}_3^+\text{N}-(\text{CH}_2)_{15}-\text{Me}$

●  $\text{Cl}^-$

RN 122-19-0 HCAPLUS  
 CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



●  $\text{Cl}^-$

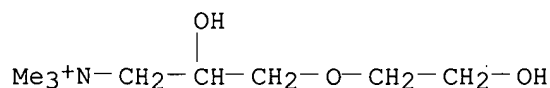
RN 81859-24-7 HCAPLUS  
 CN Cellulose, 2-hydroxyethyl 2-[2-hydroxy-3-(trimethylammonio)propoxy]ethyl 2-hydroxy-3-(trimethylammonio)propyl ether, chloride (9CI) (CA INDEX NAME)

CM 1

CRN 170553-71-6  
 CMF C8 H20 N O3 . x C6 H16 N O2 . x C2 H6 O2 . x Unspecified

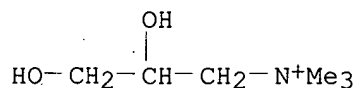
CM 2

CRN 170344-46-4  
 CMF C8 H20 N O3



CM 3

CRN 44814-66-6  
 CMF C6 H16 N O2



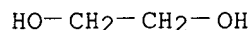
CM 4

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

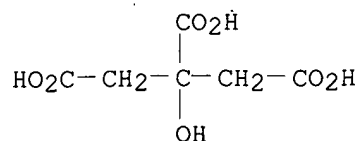
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 107-21-1  
 CMF C2 H6 O2



IT 77-92-9, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (pH-adjusting agent; shampoo or hair conditioner compns. contg.  
 Zingiber zerumbet exts.)  
 RN 77-92-9 HCAPLUS  
 CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)

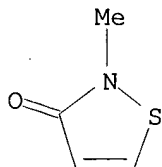


IT 2682-20-4 26172-55-4  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(preservatives; shampoo or hair conditioner compns. contg. Zingiber  
zerumbet exts.)

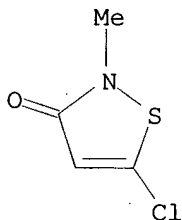
RN 2682-20-4 HCAPLUS

CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)



RN 26172-55-4 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)



IT 9004-65-3, Hydroxypropylmethylcellulose 9004-67-5,  
Methylcellulose 11138-66-2, Xanthan gum

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(thickening agent; shampoo or hair conditioner compns. contg. Zingiber  
zerumbet exts.)

RN 9004-65-3 HCAPLUS

CN Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6

CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 67-56-1

CMF C H4 O

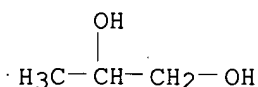
H<sub>3</sub>C-OH

CM 3

CRN 57-55-6

CMF C3 H8 O2

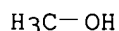




RN 9004-67-5 HCAPLUS  
 CN Cellulose, methyl ether (8CI, 9CI) (CA INDEX NAME)  
 CM 1  
 CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2  
 CRN 67-56-1  
 CMF C H4 O



RN 11138-66-2 HCAPLUS  
 CN Xanthan gum (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L161 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 1997:801820 HCAPLUS

DN 128:103491

TI Easy on-and-off stretchable cover materials providing good use feel when used on door knobs, microphones, telephones, etc.

IN Kobayashi, Hideo; Yamamoto, Hiroyuki; Oishi, Takashi; Matsuda, Shuuji; Sato, Takeo; Ishisaka, Satoshi

PA Ikari Shodoku K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM D06M011-32

ICS A01N025-34; A01N031-08; A01N035-08; A01N037-36; A01N037-40;  
 A01N037-46; A01N043-16; A01N043-36; A01N043-40; A01N043-78;  
 A01N043-80; A01N047-08; A01N047-44; A01N059-16; A01N059-20;  
 A45D044-08; A61L009-01; A61L009-16; D03D001-00

CC 42-13 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09324366	A2	19971216	JP 1996-140542	19960603
PRAI	JP 1996-140542		19960603		

AB The title materials are disclosed comprising stretchable cylindrical materials contg. antistatic agents, antimicrobial agents, deodorants, and fragrances.

ST resilient cover door knob; microphone resilient cover; telephone resilient cover; antistatic agent resilient cover; antimicrobial agent resilient cover; deodorant resilient cover; perfume resilient cover

IT Essential oils

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

- (Melaleuca; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Charcoal  
RL: NUU (Other use, unclassified); USES (Uses)  
(activated; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT **Quaternary ammonium compounds, biological studies**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(alkylbenzyl dimethyl, **chlorides**; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Textiles  
(cylindrical; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Antimicrobial agents  
Antistatic agents  
Deodorants  
Perfumes  
Surfactants  
Telephones  
(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Betaines  
Carboxylic acids, uses  
Chlorophylls, uses  
Essential oils  
Flavonoids  
Glycols, uses  
Humic acids  
Silica gel, uses  
Terpenes, uses  
Zeolites (synthetic), uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Carbon fibers, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Metallic fibers  
RL: TEM (Technical or engineered material use); USES (Uses)  
(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Natural rubber, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Synthetic rubber, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Polyurethanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(foams; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Doors  
(knobs; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT Acoustic devices  
(microphones; easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)
- IT 58-36-6 69-72-7, biological studies 70-30-4 99-96-7D, esters  
148-79-8 499-44-5 719-96-0 4418-26-2 13108-52-6 13463-41-7

18472-51-0 26530-20-1 102140-91-0

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)

IT 50-81-7, L-Ascorbic acid, uses 64-19-7, Acetic acid, uses

110-15-6, Butanedioic acid, uses 111-30-8, Pentanedial

142-90-5 1306-06-5, Hydroxylapatite (Ca<sub>5</sub>(OH)(PO<sub>4</sub>)<sub>3</sub>)

RL: NUU (Other use, unclassified); USES (Uses)

(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)

IT 18472-51-0 26530-20-1

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)

RN 18472-51-0 HCAPLUS

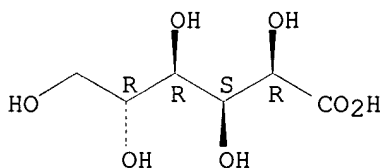
CN D-Gluconic acid, compd. with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 526-95-4

CMF C6 H12 O7

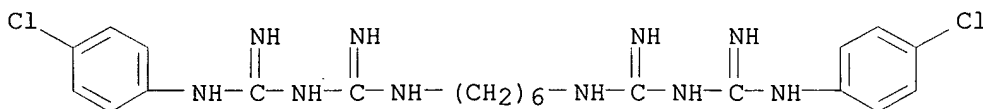
Absolute stereochemistry.



CM 2

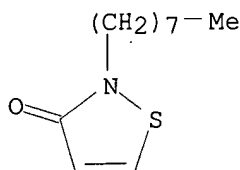
CRN 55-56-1

CMF C22 H30 Cl2 N10



RN 26530-20-1 HCAPLUS

CN 3(2H)-Isothiazolone, 2-octyl- (9CI) (CA INDEX NAME)



IT 50-81-7, L-Ascorbic acid, uses 110-15-6, Butanedioic acid, uses

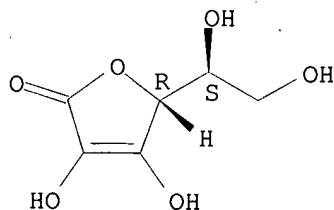
RL: NUU (Other use, unclassified); USES (Uses)

(easy on-and-off stretchable cover materials used on door knobs and microphones and telephones)

RN 50-81-7 HCAPLUS

CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 110-15-6 HCAPLUS

CN Butanedioic acid (9CI) (CA INDEX NAME)

HO<sub>2</sub>C-CH<sub>2</sub>-CH<sub>2</sub>-CO<sub>2</sub>H

L161 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 1997:12604 HCAPLUS

DN 126:44648

TI Improved method and reagent composition for performing leukocyte differential counts on fresh and aged whole blood samples, based on intrinsic peroxidase activity of leukocytes

IN Malin, Michael J.; Shapiro, Phyllis; Cremins, John F.

PA Bayer A.-G., USA

SO Eur. Pat. Appl., 44 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM G01N033-50

ICS C12Q001-28; G01N001-30

CC 9-15 (Biochemical Methods)

Section cross-reference(s): 14

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 743519	A2	19961120	EP 1996-106957	19960503
	EP 743519	A3	19980729		
	EP 743519	B1	20020828		
	R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	US 5639630	A	19970617	US 1995-442491	19950516
	CA 2173519	AA	19961117	CA 1996-2173519	19960404
	IL 117862	A1	19991222	IL 1996-117862	19960409
	TW 448295	B	20010801	TW 1996-85104571	19960417
	AT 223043	E	20020915	AT 1996-106957	19960503
	ES 2181821	T3	20030301	ES 1996-106957	19960503
	AU 9652262	A1	19961128	AU 1996-52262	19960513
	AU 699086	B2	19981119		
	JP 08308593	A2	19961126	JP 1996-144826	19960516
PRAI	US 1995-442491	A	19950516		

AB The present invention provides an improved reagent compn. and method to perform white blood cell differential counting and subpopulation anal. using both fresh and aged blood samples with accuracy and precision. The invention is particularly applicable for the anal. of aged blood samples

that have been stored at room temp. for over a day, thereby allowing accurate and useful information to be obtained from samples that are normally considered to be suboptimal. The improved reagent compn. and method are particularly related to the peroxidase method of white blood cell differential detns. One aspect of the invention includes an improved aq. reagent compn. for carrying out the peroxidase method of differential counting. Another aspect includes the use of a rinse cycle and rinse soln. devoid of hemolytic surfactant to alleviate the adverse effects of rinse carryover and to streamline and economize the anal. process, particularly when the analyses are performed on automated hematom. analyzers and flow cytometry systems. The compn. and method of the invention provide clin. useful data for the differential anal. of whole blood samples.

- ST blood leukocyte differential counting peroxidase reagent; electrooptical detection leukocyte differential counting; flow cytometry leukocyte differential counting
- IT Alcohols, analysis  
Alcohols, analysis  
RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(C16-18, ethoxylated; leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Alcohols, analysis  
RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(ethoxylated; leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Cytometry  
(flow; leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Surfactants  
(ionic; leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Basophil  
Eosinophil  
Hemolysis  
Leukocyte  
Lymphocyte  
Monocyte  
Neutrophil  
Staining, biological  
Stains, biological  
(leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Alditols  
**Buffers**  
Carbohydrates, analysis  
Polyoxyalkylenes, analysis  
RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Surfactants  
(nonionic; leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT Phenols, analysis  
RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(polyethoxylated; leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT 9003-99-0, Peroxidase  
RL: ANT (Analyte); ANST (Analytical study)  
(leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)
- IT 50-00-0, Formaldehyde, analysis 50-70-4, D-Glucitol, analysis  
50-99-7, D-Glucose, analysis 52-51-7, Bronopol  
57-48-7, Fructose, analysis 57-50-1, Sucrose,

analysis 60-00-4, EDTA, analysis 64-02-8, Tetrasodium EDTA 67-42-5, EGTA 69-65-8, Mannitol 111-17-1, 3,3'-Thiodipropionic acid 121-00-6, 2-tert-Butyl-4-methoxyphenol 128-37-0, 2,6-Di-tert-butyl-4-methylphenol, analysis 139-33-3, Disodium EDTA 150-38-9, Trisodium EDTA 150-76-5, MEHQ 151-21-3, SDS, analysis 594-03-6, Dithioacetic acid 1119-97-7, Tetradecyltrimethylammonium bromide 1120-03-2 1406-18-4, Vitamin e 2682-20-4, Proclin 150 7447-40-7, Potassium chloride, analysis 7447-41-8, Lithium chloride, analysis 7558-79-4, Disodium hydrogen phosphate 7558-80-7 7647-14-5, Sodium chloride (NaCl), analysis 9002-92-0, Brij 35 9002-93-1, Triton X 100 9003-11-6, Ethylene oxide-propylene oxide copolymer 9004-95-9, Brij 52 9004-99-3, Myrj 53 9005-00-9, Brij 76 9016-45-9, Igepal CO 897 13368-13-3 14933-09-6 17572-97-3, Tripotassium EDTA 24938-91-8, Macol TD 12 25013-16-5, BHA 25322-68-3 26082-78-0, Disodium EGTA 30525-89-4, Paraformaldehyde 39236-46-9, Germall 115 39536-51-1, Dodecyldimethylammoniopropanesulfonate 51229-78-8, Dowicil 200 53188-07-1, Trolox 55965-84-9, Proclin 300 75621-03-3, Chaps 106392-12-5, Pluronic P105 184769-51-5, Trisodium EGTA

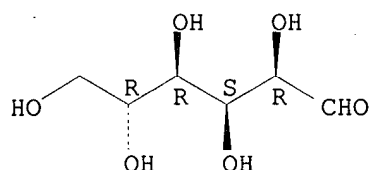
RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)

IT 50-99-7, D-Glucose, analysis 57-48-7, Fructose, analysis 57-50-1, Sucrose, analysis 1119-97-7, Tetradecyltrimethylammonium bromide 2682-20-4, Proclin 150 55965-84-9, Proclin 300

RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(leukocyte differential counting in fresh and aged whole blood based on peroxidase activity)

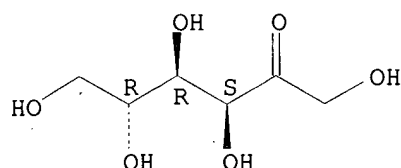
RN 50-99-7 HCAPLUS  
CN D-Glucose (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



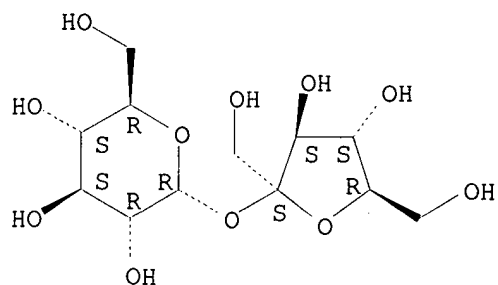
RN 57-48-7 HCAPLUS  
CN D-Fructose (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 57-50-1 HCAPLUS  
CN .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



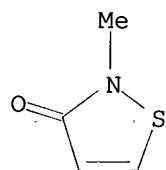
RN 1119-97-7 HCAPLUS

CN 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

Me<sub>3</sub><sup>+</sup>N-(CH<sub>2</sub>)<sub>13</sub>-Me

RN 2682-20-4 HCAPLUS

CN 3(2H)-Isothiazolone, 2-methyl- (9CI) (CA INDEX NAME)



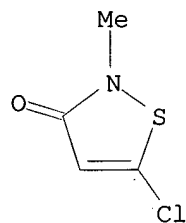
RN 55965-84-9 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (9CI) (CA INDEX NAME)

CM 1

CRN 26172-55-4

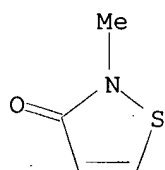
CMF C4 H4 Cl N O S



CM 2

CRN 2682-20-4

CMF C4 H5 N O S



L161 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 1994:86545 HCAPLUS

DN 120:86545

TI A disinfecting composition containing tea tree oil biocidally active terpenes

IN Whiteley, Reginald Keith

PA Australia

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A01N065-00

ICS A01N025-02; A01N031-02; A01N031-04; A01N035-02; A01N037-04;

A01N041-02; A01N041-04; A01N043-32; A01N043-80; A01N057-34;

A61L002-18; D06M015-01

CC 63-8 (Pharmaceuticals)

Section cross-reference(s): 40, 46

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9317558	A1	19930916	WO 1993-AU87	19930303
	W: AU, CA, JP, NZ, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9336228	A1	19931005	AU 1993-36228	19930303
	AU 662399	B2	19950831		
	EP 630182	A1	19941228	EP 1993-905103	19930303
	EP 630182	B1	19981007		
	R: DE, ES, FR, GB, IT, NL, SE				
	JP 07506815	T2	19950727	JP 1993-515177	19930303
	US 5610189	A	19970311	US 1994-295741	19941107
PRAI	AU 1992-1145		19920303		
	WO 1993-AU87		19930303		

AB A disinfecting compn. comprises stable aq. solns. of a blend of biocidally active terpenes of tea tree oil, .gtoreq.1 biocidally active surfactants, .gtoreq.1 proton donor type biocides, and a salt of mono-, di-, or trihydroxy aliph. or arom. acids. The tea tree oil contains terpinen-4-ol and 1,8-cineole. The compn. may act as a carrier for secondary compns. for the control of biol. fouling. Fabric may be treated by cleaning with a surfactant and applying disinfectant compn. A compn. contg. linear alkyl benzene sodium sulfonate 0.2, SDS 0.1, anhyd. Na citrate 0.5, tea tree oil 0.13, Kathon WT

0.05, glyoxal 0.05, perfume 0.02; and water to 100.0 wt.% was prepd.

ST disinfecting compn biocide tea tree oil; terpene Melaleuca oil disinfectant compn; terpinenol surfactant disinfectant compn

IT Odor and Odorous substances

(agents absorbing or masking, in disinfecting compn.)

IT Pyrethrins and Pyrethroids

RL: BIOL (Biological study)

(as insecticides in disinfecting compn.)

IT Bactericides, Disinfectants, and Antiseptics

Fungicides and Fungistats

(biocidally active terpenes of tea tree oil and surfactants and proton donor type biocides and hydroxy acids in)



- IT Surfactants
  - Aldehydes, biological studies
  - Ketones, biological studies
  - RL: BIOL (Biological study)
  - (biocidally active, in disinfecting compn.)
- IT Terpenes and Terpenoids, biological studies
  - RL: BIOL (Biological study)
  - (biocidally active, of tea tree oil, in disinfecting compn.)
- IT Carpets
  - Textiles
  - (disinfection of, compn. for)
- IT Acaricides
  - Algicides
  - Deodorants
  - Dyes
  - Insecticides
  - Perfumes
  - (in disinfecting compn.)
- IT Biocides
  - (proton donor type, in disinfecting compn.)
- IT Household furnishings
  - (soft, disinfection of, compn. for)
- IT Alcohols, compounds
  - RL: USES (Uses)
  - (C12-15, ethoxylated, in disinfecting compn.)
- IT Essential oils
  - RL: BIOL (Biological study)
  - (Melaleuca alternifolia, biocidally active terpenes of, in disinfecting compn.)
- IT Carboxylic acids, biological studies
  - RL: BIOL (Biological study)
  - (aliph., in disinfecting compn.)
- IT **Quaternary ammonium compounds, biological studies**
  - RL: BIOL (Biological study)
  - (alkylbenzyl dimethyl, **chlorides**, in disinfecting compn.)
- IT Surfactants
  - (amphoteric, biocidally active, in disinfecting compn.)
- IT Surfactants
  - (anionic, biocidally active, in disinfecting compn.)
- IT Carboxylic acids, biological studies
  - RL: BIOL (Biological study)
  - (aryl, in disinfecting compn.)
- IT Surfactants
  - (cationic, biocidally active, in disinfecting compn.)
- IT Surfactants
  - (nonionic, biocidally active, in disinfecting compn.)
- IT Amines, compounds
  - RL: BIOL (Biological study)
  - (salts, with hydroxy acids, in disinfecting compn.)
- IT Upholstery
  - (textiles, disinfection of, compn. for)
- IT Surfactants
  - (zwitterionic, biocidally active, in disinfecting compn.)
- IT 122-99-6, Phenoxyethanol 24634-61-5, Potassium sorbate 35554-44-0, Fungaflor **55965-84-9**, **Kathon WT** 78491-02-8, Germall II 133248-96-1, Myacide BT
  - RL: USES (Uses)
  - (as algaecide and fungicide in disinfecting compn.)
- IT 29656-58-4D, Hydroxybenzoic acid, esters
  - RL: USES (Uses)
  - (as algaecides and fungicides in disinfecting compn.)
- IT 107-22-2, Glyoxal 111-30-8, Glutaraldehyde 116-25-6 828-00-2, 6-Acetoxy-2,4-dimethyl-m-dioxane 1072-21-5, Hexanedial 6440-58-0

**26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one**  
**151237-41-1**

RL: USES (Uses)

(as biocide in disinfecting compn.)

IT 100-51-6, Benzyl alcohol, biological studies 120-51-4, Benzyl benzoate

RL: BIOL (Biological study)

(as miticide in disinfecting compn.)

IT 562-74-3, Terpinen-4-ol

RL: USES (Uses)

(biocidally active, of tea tree oil, in disinfecting compn.)

IT 50-21-5D, Lactic acid, salts **68-04-2, Sodium**

**citrate** 76-30-2D, Dihydroxytartaric acid, salts **77-92-9D**

, **Citric acid**, salts 87-69-4D, Tartaric acid, salts

98-11-3D, Benzenesulfonic acid, alkyl derivs., sodium salts 110-94-1D,

Glutaric acid, salts 149-91-7D, Gallic acid, salts 151-21-3, Sodium

dodecyl sulfate, biological studies **526-95-4D**, Gluconic acid,

salts 828-00-2, Givgard DXN 7696-12-0, Tetramethrin 9002-92-0

25429-38-3D, Hydroxy cinnamic acid, salts 29656-58-4D, Hydroxy benzoic

acid, salts 35054-79-6D, Hydroxy butyric acid, salts 35554-44-0

36445-71-3, Disodium n-decyldiphenyl ether disulfonate 81598-26-7D,

salts 81741-28-8, Belclene 350 118058-35-8, Teric 9A6 123687-85-4

151354-22-2, Dowicide 3B2 151354-31-3, Gardiquat 1450

RL: USES (Uses)

(in disinfecting compn.)

IT 470-82-6, 1,8-Cineole

RL: USES (Uses)

(of tea tree oil, in disinfecting compn.)

IT **55965-84-9, Kathon WT**

RL: USES (Uses)

(as algaecide and fungicide in disinfecting compn.)

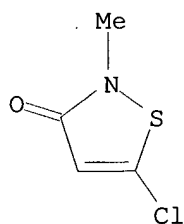
RN 55965-84-9 HCAPLUS

CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (9CI) (CA INDEX NAME)

CM 1

CRN 26172-55-4

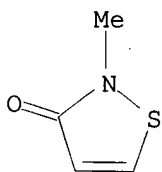
CMF C4 H4 Cl N O S



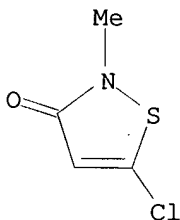
CM 2

CRN 2682-20-4

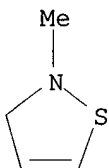
CMF C4 H5 N O S



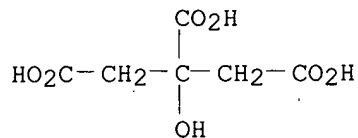
IT 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one  
151237-41-1  
RL: USES (Uses)  
(as biocide in disinfecting compn.)  
RN 26172-55-4 HCAPLUS  
CN 3(2H)-Isothiazolone, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)



RN 151237-41-1 HCAPLUS  
CN Isothiazole, 2,3-dihydro-2-methyl- (9CI) (CA INDEX NAME)

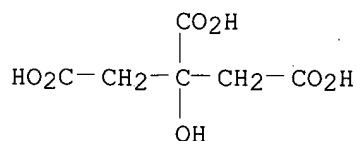


IT 68-04-2, Sodium citrate 77-92-9D,  
Citric acid, salts 526-95-4D, Gluconic acid,  
salts  
RL: USES (Uses)  
(in disinfecting compn.)  
RN 68-04-2 HCAPLUS  
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt (9CI) (CA INDEX NAME)



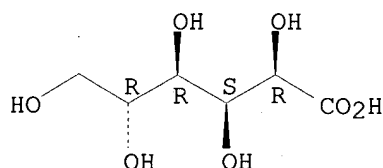
3 Na

RN 77-92-9 HCAPLUS  
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



RN 526-95-4 HCAPLUS  
CN D-Gluconic acid (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L161 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2003 ACS

AN 1993:23861 HCAPLUS

DN 118:23861

TI Anticorrosive dampening water compositions for lithographic printing apparatus

IN Matsumoto, Hiroshi; Kunichika, Kenji; Uchida, Toshio

PA Fuji Photo Film Co., Ltd., Japan

SO Can. Pat. Appl., 31 pp.

CODEN: CPXXEB

DT Patent

LA English

IC ICM C23F011-14

ICS B41N003-08

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CA 2053554	AA	19920426	CA 1991-2053554	19911016
	US 5165344	A	19921124	US 1991-780202	19911022
PRAI	JP 1990-288244		19901025		

OS MARPAT 118:23861

AB Title compns. contain hydrophilic film-forming polymers, pH **buffers**, and benzimidazole derivs. Thus, an aq. compn. contg. gum arabic 0.015, Mg(NO<sub>3</sub>)<sub>2</sub> 0.3, H<sub>3</sub>PO<sub>4</sub> 0.13, monoammonium citrate 0.13, benzimidazole 0.003, and iso-PrOH 10% was adjusted with KOH to pH 5.0-5.5 and showed good anticorrosion on Cu, brass, steel, and (ni-plated) cast iron. Lithog. printing with the use of the compn. as dampening water gave a .gtoreq.104 smudge-resistant copies and no contamination to the metering rolls.

ST anticorrosion dampening water compn benzimidazole; lithog printing dampening water benzimidazole; smudge resistance dampening water benzimidazole.

IT Amidines

**Quaternary ammonium compounds, uses**

RL: USES (Uses)

(dampening water compns. contg., anticorrosive, for lithog. plates)

IT Surfactants

Wetting agents

Alcohols, uses

Glycols, uses

- RL: USES (Uses)  
(dampening water compns. contg., with benzimidazole derivs., anticorrosive, for lithog. plates)
- IT Lithographic plates  
(dampening water compns. for, contg. benzimidazoles, anticorrosive, smudge-resistant)
- IT Acids, uses  
Carboxylic acids, uses  
Salts, uses  
RL: USES (Uses)  
(pH **buffering** agent, dampening water compns. contg., with benzimidazoles, anticorrosive, for lithog. plates)
- IT Ethers, uses  
RL: USES (Uses)  
(glycol, dampening water compns. contg., with benzimidazole derivs., anticorrosive, for lithog. plates)
- IT Alcohols, uses  
RL: USES (Uses)  
(polyhydric, dampening water compns. contg., with benzimidazole derivs., anticorrosive, for lithog. plates)
- IT Alkali metals, compounds  
Alkaline earth compounds  
RL: USES (Uses)  
(salts, pH **buffering** agent, dampening water compns. contg., with benzimidazoles, anticorrosive, for lithog. plates)
- IT 50-00-0, Formaldehyde, uses 51-17-2, Benzimidazole 91-22-5, Quinoline, uses 95-14-7, 1H-Benzotriazole 110-86-1, Pyridine, uses 113-00-8, Guanidine 288-32-4, Imidazole, uses 288-42-6, Oxazole 583-39-1, 2-Mercaptobenzimidazole **1003-07-2**, 4-**Isothiazolin**-3-one 4418-26-2, Sodium dehydroacetate 11084-05-2, Oxazine 37052-78-1, 5-Methoxy-2-mercaptobenzimidazole 37306-44-8, Triazole 53918-03-9, Sodium 2-mercaptobenzimidazole-5-sulfonate  
RL: USES (Uses)  
(dampening water compns. contg., anticorrosive, for lithog. plates)
- IT 107-22-2D, Ethanediol, reaction products with cellulose derivs.  
9000-01-5, Gum arabic 9002-89-5, Poly(vinyl alcohol) 9003-01-4, Poly(acrylic acid) 9003-05-8, Polyacrylamide 9003-39-8, Poly(vinyl pyrrolidone) **9004-32-4** **9004-34-6D**, Cellulose, derivs., reaction products with glyoxal 9004-42-6, Carboxyethyl cellulose **9004-53-9**, Dextrin **9004-62-0**, Hydroxyethyl cellulose **9004-64-2**, Hydroxypropyl cellulose **9004-65-3** **9004-67-5**, Methyl cellulose **9005-25-8D**, Starch, carboxymethylated or phosphorylated or octenylsuccinylated **9005-32-7D**, Alginic acid, salt 9011-07-8, Maleic anhydride-vinyl acetate copolymer 9011-16-9, Maleic anhydridemethyl vinyl ether copolymer 25322-68-3 50851-57-5, Poly(styrenesulfonic acid)  
RL: USES (Uses)  
(dampening water compns., benzimidazole deriv.-contg., anticorrosion, for lithog. plates)
- IT 121-57-3, Sulfanilic acid 123-76-2, Levulinic acid **141-82-2**, Propanedioic acid, miscellaneous 144-62-7, Oxalic acid, miscellaneous **526-95-4**, Gluconic acid **4450-94-6**, Monoammonium citrate 6915-15-7, Malic acid 7664-38-2, Phosphoric acid, miscellaneous 7664-93-9, Sulfuric acid, miscellaneous 7697-37-2, Nitric acid, miscellaneous 10343-62-1, Metaphosphoric acid 10377-60-3, Magnesium nitrate 13598-36-2D, Phosphonic acid, org. derivs. 14798-03-9D, Ammonium, salts  
RL: USES (Uses)  
(pH **buffering** agent, dampening water compns. contg., with benzimidazoles, anticorrosive, for lithog. plates)
- IT 50-21-5, miscellaneous **50-81-7**, Ascorbic acid, miscellaneous 64-19-7, Acetic acid, miscellaneous **77-92-9**, miscellaneous 79-14-1, Hydroxyacetic acid, miscellaneous 83-86-3, Phytic acid

87-69-4, Tartaric acid, miscellaneous 104-15-4, p-Toluenesulfonic acid, miscellaneous

RL: MSC (Miscellaneous)

(pH **buffering** agent, dampening water compns. contg., with benzimidazoles, anticorrosive, for lithog. plates)

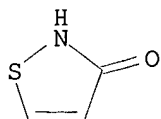
IT 1003-07-2, 4-Isothiazolin-3-one

RL: USES (Uses)

(dampening water compns. contg., anticorrosive, for lithog. plates)

RN 1003-07-2 HCAPLUS

CN 3(2H)-Isothiazolone (9CI) (CA INDEX NAME)



IT 9004-32-4 9004-34-6D, Cellulose, derivs., reaction products with glyoxal 9004-53-9, Dextrin 9004-62-0, Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose 9004-65-3 9004-67-5, Methyl cellulose 9005-25-8D

, Starch, carboxymethylated or phosphated or octenylsuccinylated 9005-32-7D, Alginic acid, salt

RL: USES (Uses)

(dampening water compns., benzimidazole deriv.-contg., anticorrosion, for lithog. plates)

RN 9004-32-4 HCAPLUS

CN Cellulose, carboxymethyl ether, sodium salt (8CI, 9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6

CMF Unspecified

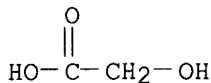
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 79-14-1

CMF C2 H4 O3



RN 9004-34-6 HCAPLUS

CN Cellulose (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-53-9 HCAPLUS

CN Dextrin (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9004-62-0 HCAPLUS

CN Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)

CM 1

CRN 9004-34-6

CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2  
CRN 107-21-1  
CMF C2 H6 O2

HO-CH<sub>2</sub>-CH<sub>2</sub>-OH

RN 9004-64-2 HCAPLUS  
CN Cellulose, 2-hydroxypropyl ether (9CI) (CA INDEX NAME)

CM 1  
CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2  
CRN 57-55-6  
CMF C3 H8 O2

OH  
|  
H<sub>3</sub>C-CH-CH<sub>2</sub>-OH

RN 9004-65-3 HCAPLUS  
CN Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)

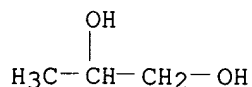
CM 1  
CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2  
CRN 67-56-1  
CMF C H4 O

H<sub>3</sub>C-OH

CM 3  
CRN 57-55-6  
CMF C3 H8 O2



RN 9004-67-5 HCAPLUS  
CN Cellulose, methyl ether (8CI, 9CI) (CA INDEX NAME)

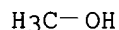
CM .1

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 67-56-1  
CMF C H4 O



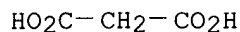
RN 9005-25-8 HCAPLUS  
CN Starch (8CI, 9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9005-32-7 HCAPLUS  
CN Alginic acid (8CI, 9CI) (CA INDEX NAME)

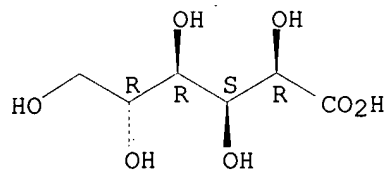
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 141-82-2, Propanedioic acid, miscellaneous 526-95-4,  
Gluconic acid 4450-94-6, Monoammonium citrate  
RL: USES (Uses)  
(pH **buffering** agent, dampening water compns. contg., with  
benzimidazoles, anticorrosive, for lithog. plates)  
RN 141-82-2 HCAPLUS  
CN Propanedioic acid (9CI) (CA INDEX NAME)



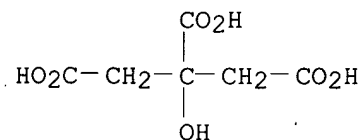
RN 526-95-4 HCAPLUS  
CN D-Gluconic acid (9CI) (CA INDEX NAME)

Absolute stereochemistry.



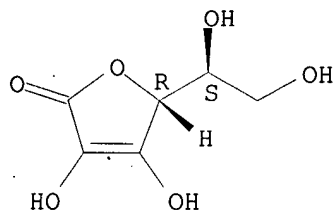
RN 4450-94-6 HCAPLUS  
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monoammonium salt (9CI) (CA INDEX NAME)



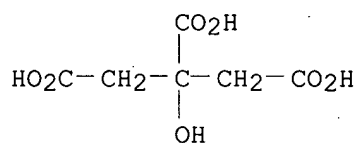
● NH<sub>3</sub>

IT 50-81-7, Ascorbic acid, miscellaneous 77-92-9,  
miscellaneous  
RL: MSC (Miscellaneous)  
(pH **buffering** agent, dampening water compns. contg., with  
benzimidazoles, anticorrosive, for lithog. plates)  
RN 50-81-7 HCAPLUS  
CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



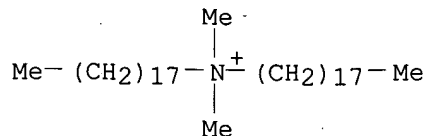
RN 77-92-9 HCAPLUS  
CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (9CI) (CA INDEX NAME)



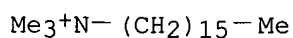
L161 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2003 ACS  
AN 1991:128792 HCAPLUS  
DN 114:128792  
TI Cationic oil-in-water emulsion composition, especially useful as hair  
conditioner  
IN Uick, Heide J.  
PA Johnson, S. C., and Son, Inc., USA  
SO PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
IC ICM A61K007-00  
ICS A61K007-06; A61K007-08  
CC 62-3 (Essential Oils and Cosmetics)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9010429	A1	19900920	WO 1990-US802	19900212
	W: AU, CA				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				

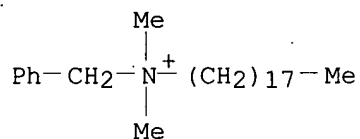
AU 9051084            A1    19901009            AU 1990-51084        19900212  
 US 5019376            A     19910528            US 1990-600274       19901022  
 PRAI US 1989-323480            19890313  
       WO 1990-US802            19900212  
 OS    MARPAT 114:128792  
 AB    The title compn., which has a sparkling pearlescent appearance, comprises 0.1-5% cationic surfactant (Markush given), 1-10% mixt. of a C12-16 fatty acid with a C12-16 fatty alc., 0.5-2% thickening agent, and the balance water. The surfactants are Variquat 638, Varisoft 475, Varisoft 3690, Adogen 464, etc. The compn. contains irregular platelet-like crystals which provide the sparkling appearance. A compn. comprised Ammonyx-4002 1.34, cetyl alc. 0.938, myristic acid 3.752, Variquat E-228 1.34, Adogen 342-D (stearyldimethylamine) 0.70, **citric acid** 0.5075, water 90.5475, and fragrance 0.875%. A hair conditioner comprised the above compn. 28.57, hydroxyethylcellulose 0.75, collagen hydrolyzate 0.10, propylene glycol 0.50, preservative 0.03, and water 70.05%.  
 ST    hair conditioner pearly substance; surfactant cationic hair conditioner  
 IT    **Quaternary ammonium compounds, compounds**  
       RL: BIOL (Biological study)  
       (C8-18-alkylbis(hydroxyethyl)methyl, ethoxylated, **chlorides**, hair conditioners contg.)  
 IT    Imidazolium compounds  
       RL: BIOL (Biological study)  
       (4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl), Me sulfates, hair conditioners contg.)  
 IT    Fatty acids, biological studies  
       RL: BIOL (Biological study)  
       (C12-16, hair conditioners contg.)  
 IT    Surfactants  
       (cationic, hair conditioners contg.)  
 IT    Hair preparations  
       (conditioners, pearlescent, cationic surfactants-contg.)  
 IT    **Quaternary ammonium compounds, compounds**  
       RL: BIOL (Biological study)  
       (ethylbis(hydroxyethyl)tallow alkyl, ethoxylated, Et sulfates (salts), hair conditioners contg.)  
 IT    Alcohols, biological studies  
       RL: BIOL (Biological study)  
       (fatty, C12-16, hair conditioners contg.)  
 IT    Collagens, compounds  
       RL: BIOL (Biological study)  
       (hydrolyzates, hair conditioners contg.)  
 IT    **Quaternary ammonium compounds, compounds**  
       RL: BIOL (Biological study)  
       (tri-C8-10-alkylmethyl, **chlorides**, hair conditioners contg.)  
 IT    57-10-3, Palmitic acid, biological studies    57-11-4, Octadecanoic acid, biological studies **107-64-2 112-02-7**, Variquat E-228  
       112-53-8, Lauryl alcohol    112-72-1, Myristyl alcohol    112-92-5, Stearyl alcohol **122-19-0**, Ammonyx 4002    124-28-7, Adogen 342D  
       143-07-7, Dodecanoic acid, biological studies    334-48-5, Decanoic acid  
       544-63-8, Tetradecanoic acid, biological studies **9004-62-0**,  
       Natrosol 250HHR    36653-82-4, Cetyl alcohol **55965-84-9**,  
       **Kathon CG**    82853-33-6, Varisoft 110  
       RL: BIOL (Biological study)  
       (hair conditioners contg.)  
 IT    **107-64-2 112-02-7**, Variquat E-228 **122-19-0**,  
       Ammonyx 4002 **9004-62-0**, Natrosol 250HHR **55965-84-9**,  
       **Kathon CG**  
       RL: BIOL (Biological study)  
       (hair conditioners contg.)  
 RN    107-64-2    HCAPLUS  
 CN    1-Octadecanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI)    (CA INDEX NAME)

● Cl<sup>-</sup>

RN 112-02-7 HCAPLUS  
 CN 1-Hexadecanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 122-19-0 HCAPLUS  
 CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 9004-62-0 HCAPLUS  
 CN Cellulose, 2-hydroxyethyl ether (8CI, 9CI) (CA INDEX NAME)

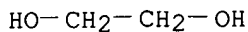
CM 1

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

CRN 107-21-1  
 CMF C2 H6 O2



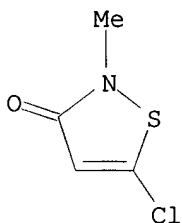
RN 55965-84-9 HCAPLUS  
 CN 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-

isothiazolone (9CI) (CA INDEX NAME)

CM 1

CRN 26172-55-4

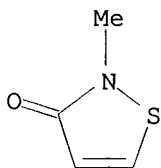
CMF C4 H4 Cl N O S



CM 2

CRN 2682-20-4

CMF C4 H5 N O S



=&gt; fil wpix

FILE 'WPIX' ENTERED AT 15:25:54 ON 10 MAY 2003

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FILE LAST UPDATED: 5 MAY 2003 &lt;20030505/UP&gt;

MOST RECENT DERWENT UPDATE: 200329 &lt;200329/DW&gt;

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

&gt;&gt;&gt; NEW WEEKLY SDI FREQUENCY AVAILABLE --&gt; see NEWS &lt;&lt;&lt;

&gt;&gt;&gt; SLART (Simultaneous Left and Right Truncation) is now available in the /ABEX field. An additional search field /BIX is also provided which comprises both /BI and /ABEX &lt;&lt;&lt;

&gt;&gt;&gt; PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY &lt;&lt;&lt;

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE <http://www.derwent.com/dwpi/updates/dwpcov/index.html> <<<>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT: [http://www.stn-international.de/training\\_center/patents/stn\\_guide.pdf](http://www.stn-international.de/training_center/patents/stn_guide.pdf) <<<>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER GUIDES, PLEASE VISIT: [http://www.derwent.com/userguides/dwpi\\_guide.html](http://www.derwent.com/userguides/dwpi_guide.html) <<<

=&gt; d all abeq tech abex tot

L196 ANSWER 1 OF 5 WPIX (C) 2003 THOMSON DERWENT  
AN 2001-581426 [65] WPIX  
DNC C2001-172288  
TI Control system for controlling moisture transpiration of plants and flowers, includes solution comprising polymer, carriers and adjunct ingredients, and source of energy and antimicrobial.  
DC A97 C03  
IN HAMERSKY, M W; SMITH, S D  
PA (PROC) PROCTER & GAMBLE CO; (HAME-I) HAMERSKY M W; (SMIT-I) SMITH S D  
CYC 95  
PI WO 2001050856 A1 20010719 (200165)\* EN 28p A01N003-02 <--  
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
NL OA PT SD SE SL SZ TR TZ UG ZW  
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
AU 2001032798 A 20010724 (200166) A01N003-02 <--  
US 2002006873 A1 20020117 (200212) A01N043-80 <--  
EP 1255438 A1 20021113 (200282) EN A01N003-02 <--  
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI TR  
ADT WO 2001050856 A1 WO 2001-US1211 20010112; AU 2001032798 A AU  
2001-32798 20010112; US 2002006873 A1 Provisional US 2000-176089P  
20000114, US 2001-759864 20010112; EP 1255438 A1 EP  
2001-904859 20010112, WO 2001-US1211 20010112  
FDT AU 2001032798 A Based on WO 200150856; EP 1255438 A1 Based on WO 200150856  
PRAI US 2000-176089P 20000114; US 2001-759864 20010112  
IC ICM A01N003-02; A01N043-80  
ICS A01N025-10  
AB WO 200150856 A UPAB: 20011108  
NOVELTY - A control system includes solution comprising polymer, carriers and adjunct ingredients; and source of energy, and antimicrobial. The polymer has a water vapor transfer rate of less than 10 g-mm/m<sup>2</sup>-day, and a glass transition temperature greater than 30 deg. C. The source of energy and antimicrobial are dissolved in water to form a solution into which the plant or flower is placed.  
ACTIVITY - Antimicrobial. No biological data given.  
MECHANISM OF ACTION - None given.  
USE - For controlling moisture transpiration of plants and flowers used in aesthetic displays or floral arrangements.  
ADVANTAGE - The invention extends the period of time in which cut flowers can be displayed.  
Dwg.0/0  
FS CPI  
FA AB; DCN  
MC CPI: A12-W04; C07-F01; C10-A22; C14-A01; C14-A02;  
C14-A03; C14-A04; C14-A05  
TECH UPTX: 20011108  
TECHNOLOGY FOCUS - POLYMERS - Preferred Properties: The polymer has a water vapor transfer rate of less than 5 g-mm/m<sup>2</sup>-day and a glass transition temperature (T<sub>g</sub>) greater than 35 (preferably greater than 40)degreesC. The water vapor transfer rate and T<sub>g</sub> of the polymer define a point to the left of a line having the equation  $y = -0.068443x + 10$  ( $x = T_g$ ;  $y =$  water vapor transfer rate of the polymer). Preferred Composition: The solution of the polymer comprises 0.01-20 wt.% polymer.  
TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Composition: The carrier comprises water and alcohol including methanol, ethanol, isopropanol, n-propanol, ethylene glycol, and/or propylene glycol at 99:1-1:99 water to alcohol. The antimicrobial includes 1-99 wt.% isothiazolone antimicrobials and 1-99 wt.% antimicrobials of formula ((R1)(R2)N+(R3)(R4))X-.

R1, R2 = 8-20C alkyl, and/or benzyl;  
 R3, R4 = 1-4C alkyl(s); and  
 X = anion of sufficient charge to provide electronic neutrality.  
 Preferred Component: The adjunct ingredients are fragrance raw materials, pro-fragrances, pro-accords, dye, and/or colorant. The isothiazolone antimicrobial is 2-methyl-4-isothiazolin-3-one, and/or 5-chloro-2-methyl-4-isothiazolin-3-one. Preferred Properties: The microemulsion has a particle size of less than 100 nm.

ABEX UPTX: 20011108

EXAMPLE - A control system may be prepared consisting (wt.%) of a copolymer (2.5) which was a reaction product of methyl methacrylate (43), butyl acrylate (47), and acrylic acid (10); disodium lauroampho diacetate (0.1) as surfactant; distilled water (80), and alcohol (20) as carriers; acid residues neutralized (10); **sucrose** (1.0) as source of energy; didodecyl dimethylammonium chloride (0.01), mixture of 12-14C and 16C n-alkyl, benzyl dimethyl ammonium chlorides (0.01), and 1,2-benzisothiazolin-3-one as antimicrobials; and distilled water as carrier (balance).

L196 ANSWER 2 OF 5 WPIX (C) 2003 THOMSON DERWENT

AN 2001-565137 [63] WPIX

DNC C2001-167649

TI Moisture transpiration control system for plant and flower comprises first component in the form of solution, and second component.

DC A18 A97 C03 E19 G04

IN HAMERSKY, M W; SMITH, S D

PA (PROC) PROCTER & GAMBLE CO; (HAME-I) HAMERSKY M W; (SMIT-I) SMITH S D

CYC 95

PI WO 2001050855 A1 20010719 (200163)\* EN 27p A01N003-02 <--

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
 SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2001030928 A 20010724 (200166) A01N003-02 <--

US 2002006870 A1 20020117 (200212) C05G003-00 <--

EP 1246525 A1 20021009 (200267) EN A01N003-02 <--

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR

ADT WO 2001050855 A1 WO 2001-US1202 20010112; AU 2001030928 A AU  
 2001-30928 20010112; US 2002006870 A1 Provisional US 2000-176181P  
 20000114, US 2001-759385 20010112; EP 1246525 A1 EP  
 2001-903063 20010112, WO 2001-US1202 20010112

FDT AU 2001030928 A Based on WO 200150855; EP 1246525 A1 Based on WO 200150855

PRAI US 2000-176181P 20000114; US 2001-759385 20010112

IC ICM A01N003-02; C05G003-00

ICS C05G003-02

AB WO 200150855 A UPAB: 20020403

NOVELTY - A moisture transpiration control system comprises a first component in the form of a solution to be applied to the surface of the plant or flower exposed to air, and a second component. The first component comprises a polymer, surfactant and carriers and adjunct ingredients. The second component comprises energy source, antimicrobial(s) and carriers and adjuncts.

DETAILED DESCRIPTION - A moisture transpiration control system comprises a first component in the form of a solution to be applied to the surface of the plant or flower exposed to air, and a second component. The first component comprises (wt.%):

- (1) polymer having monomers of formula (R1)2C=CXR2 (0.1-20);
- (2) surfactant (0.01-5); and
- (3) carriers and adjunct ingredients (balance).

The second component comprises:

- (1) energy source (0.1 wt.%);
- (2) antimicrobial(s) (5 ppm); and
- (3) carriers and adjuncts (balance).

The second component is dissolved in water to form a solution to which plant and flower are placed to be preserved.

R1 = H, 1-12C alkyl or alkoxy, optionally substituted Ph, optionally substituted benzyl, carbocyclic, and/or heterocyclic;

R2 = H, halo, 1-12C alkyl or alkoxy, optionally substituted Ph, optionally substituted benzyl, carbocyclic, and/or heterocyclic;

X = H, OH, halo,  $-(CH_2)_mCH_2OH$ ,  $-(CH_2)COR$ ,  $-(CH_2)_mCH_2OCOR$ ;

R =  $-OR'$ ,  $-N(R')_2$ , and/or  $-(CH_2)_nN(R'')_2$ ;

R' = H, 1-8C alkyl, 2-8C hydroxyalkyl, and/or  $-(CH_2)_nN(R'')_2$ ;

R'' = H, and/or 1-4C alkyl;

m = 0-6; and

n = 2-6.

ACTIVITY - Antimicrobial. No biological data given.

MECHANISM OF ACTION - None given.

USE - For controlling plant and flower moisture transpiration rates.

ADVANTAGE - The system extends the time in which plants and cut flowers can be utilized in esthetic displays or floral arrangements. It also permits flowers to be cut and displayed without the pejorative effects of natural demise, wilting or loss of petals, and browning or discoloration of flower parts.

Dwg.0/0

FS

CPI

FA

AB; DCN

MC

CPI: A12-W12; C05-B01G; **C07-F01**; C10-A09B; **C10-A22**;

C10-B01B; C14-A01; C14-A02; C14-A03; C14-A04; C14-A05; E06-F01;

E06-H; E07-A02A; E07-H; **E10-A22**; E10-A22G; E10-B02D;

E10-B02D8; E10-E04; E10-G02G2; E10-G02H2; E10-H01; E10-H04D2;

E10-J02B; E10-J02C4; G04-B

TECH

UPTX: 20011031

TECHNOLOGY FOCUS - POLYMERS - Preferred Components: The polymer comprises (wt.%) copolymer (A) consisting of methyl methacrylate (20-60), butyl acrylate (20-60), and acrylic acid (0.5-20); and copolymer (B) consisting of methyl methacrylate (40-50), butyl acrylate (40-50), and acrylic acid (5-15).

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Components: The monomers are ethylene, propylene, butylene, styrene, vinyl alcohol, crotyl alcohol, acrylic acid, styrylacetic acid, methacrylic acid, crotonic acid, 3,3-dimethyl-acrylic acid, methyl acrylate, ethyl acrylate, n-propyl acrylate, isopropyl acrylate, butyl acrylate, methyl methacrylate, ethyl methacrylate, n-propyl methacrylate, isopropyl methacrylate, butyl methacrylate, methyl 3,3-dimethyl-acrylate, ethyl 3,3-dimethyl-acrylate, n-propyl 3,3-dimethylacrylate, isopropyl 3,3-dimethyl-acrylate, butyl 3,3-dimethyl-acrylate, acrylamide, N-methyl acrylamide, N,N-dimethyl acrylamide, and/or N(aminoethyl) methyl acrylamide. The energy source is saccharide, oligosaccharide, and/or polysaccharide, particularly **glucose**. The surfactant has a formula  $R_5-NH(CH_2)_x(NR_4)(CH_2)_yO-R_4$

R4 =  $-(CH_2)_zCO_2M$ ,  $-(CH_2)_zSO_3M$ ,  $-(CH_2)_zOSO_3M$ , and/or  $-(CH_2)_zPO_3M$ ;

M = H or salt forming cation;

x and y = 2-6;

z = 1-10;

R5 = acyl unit of formula  $CH_3(CHR_6)_w(R_7O)t(CHR_8)_w(C=O)$ ;

R6 and R8 = H, and/or 1-4C alkyl;

R7 = 2-12C alkylene;

t = 0-10; and

w' and w = 0-14; or

w' + w = at least 6.

Surfactant is present at 0.05-2 wt.%, and the neutralized acrylic acid units are 5-20%. The antimicrobial comprises (wt.%) isothiazolone antimicrobials from 2-methyl-4-isothiazolin-3-one, and/or -chloro-2-methyl-4-isothiazolin-3-one, and antimicrobial of formula (I).

R1 and R2 = 8-20C alkyl, and/or benzyl;  
R3 and R4 = 1-4C alkyl; and  
X = anion.

ABEX UPTX: 20011031

EXAMPLE - A moisture transpiration control system consisted of (wt.%) methyl methacrylate, butyl acrylate, acrylic acid (2.5); Miranol Ultra 32 (Disodium lauroampho diacetate) (0.1), distilled water and alcohol, **sucrose** (1.0), didodecyl dimethylammonium chloride (0.01), Lonza (0.01), and 1,2-benzisothiazolin-3-one (0.005), and distilled water (balance).

L196 ANSWER 3 OF 5 WPIX (C) 2003 THOMSON DERWENT

AN 2001-564192 [63] WPIX

DNC C2001-167385

TI Synergistic wood preservative composition comprises 5-chloro-2-methyl-4-isothiazolin-3-one, 2-methyl-4-isothiazolin-3-one and a quaternary ammonium compound e.g. didecyldimethylammonium chloride.

DC C02 C03 D22 E13 E16 F09 P63

IN KOVACEVIC, S B; KOVACEVIC, S

PA (KOVA-I) KOVACEVIC S B; (KOVA-I) KOVACEVIC S

CYC 2

PI US 6262097 B1 20010717 (200163)\* 11p A61K031-425

CA 2392680 A1 20030117 (200313) EN A01N043-80 <--

ADT US 6262097 B1 Provisional US 1998-108988P 19981118, US 1999-443868 19991119; CA 2392680 A1 CA 2002-2392680 20020715

PRAI US 1998-108988P 19981118; US 1999-443868 19991119

IC ICM A01N043-80; A61K031-425

ICS A01N033-12; B27K003-34

AB US 6262097 B UPAB: 20011211

NOVELTY - A synergistic wood preservative composition consists of:

(a) a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one;

(b) quaternary ammonium compound(s) selected from didecyldimethylammonium chloride (DDAC), trimethyl-coco-ammonium chloride and dimethyl-dicoco-ammonium chloride; and

(c) a solvent.

USE - The wood preservative provides protection against DDAC tolerant microorganisms, mold, stain and wood destroying microorganisms (claimed).

ADVANTAGE - The composition broadens the spectrum of biocidal activities by overcoming the disadvantages caused by actions of microorganisms which may degrade alkylammonium compounds.

Dwg.0/2

FS CPI GMPI

FA AB; DCN

MC CPI: C07-F01; C10-A21; C14-A01; C14-A04; D09-A01B;

D09-A01C; E07-F01; E10-A22G; F05-B01

TECH UPTX: 20011211

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Composition: Component (a) is a 3:1 weight mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one.

The ratio of (a) to (b) is 5:1-1:300, preferably 1:2-1:100 or 1:40-1:130.

The composition is applied by spraying or dipping.

ABEX UPTX: 20011211

EXAMPLE - A composition containing 250 ppm of DDAC and 15 ppm of isothiazolones was prepared by mixing water (99.96 wt.%) with Bardac 2280 (RTM: 80 wt.% DDAC, 10 wt.% ethanol, 10 wt.% water) (0.03 wt.%) and Kathon 886 F (RTM: minimum 8.6% 5-chloro-2-methyl-4-isothiazolin-3-one and 3.6% 2-methyl-4-isothiazolin-3-one) (0.01 wt.%). The composition completely prevented the growth of *Coniphora puteana* on an agar medium whereas DDAC alone actually increased the growth of the microorganism.

L196 ANSWER 4 OF 5 WPIX (C) 2003 THOMSON DERWENT

AN 2001-483076 [52] WPIX



DNC C2001-144789  
 TI Plant and flower moisture transpiration-controlling composition contains antimicrobial(s) and energy source, e.g. **glucose**.  
 DC C03 E19 G04  
 IN HAMERSKY, M W; SMITH, S D  
 PA (PROC) PROCTER & GAMBLE CO; (HAME-I) HAMERSKY M W; (SMIT-I) SMITH S D  
 CYC 95  
 PI WO 2001050853 A1 20010719 (200152)\* EN 20p A01N003-02 <--  
 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ  
 NL OA PT SD SE SL SZ TR TZ UG ZW  
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM  
 DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
 LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
 SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
 AU 2001029462 A 20010724 (200166) A01N003-02 <--  
 US 2001042341 A1 20011122 (200176) A01G001-00 <--  
 EP 1246526 A1 20021009 (200267) EN A01N003-02 <--  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR  
 ADT WO 2001050853 A1 **WO 2001-US1200 20010112**; AU 2001029462 A AU  
 2001-29462 20010112; US 2001042341 A1 **Provisional US 2000-176090P**  
**20000114, US 2001-760037 20010112**; EP 1246526 A1 **EP**  
**2001-942271 20010112, WO 2001-US1200 20010112**  
 FDT AU 2001029462 A Based on WO 200150853; EP 1246526 A1 Based on WO 200150853  
 PRAI **US 2000-176090P 20000114; US 2001-760037 20010112**  
 IC ICM A01G001-00; **A01N003-02**  
 ICS A01B079-00; A01B079-02; A01C001-00; A01H003-00; **A01N033-12**;  
 A01N043-16; **A01N043-80**; C07C211-00; C07C213-00; C07C215-00;  
 C07C217-00; C07C221-00  
 ICI A01N043-16; A01N043-80; **A01N033-12**  
 AB WO 200150853 A UPAB: 20010914  
 NOVELTY - A plant and flower moisture transpiration-controlling  
 composition comprising energy source (7.5 wt.%), antimicrobial(s) (0.05  
 wt.%), and carriers and adjuncts (balance).  
 DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for  
 (1) a plant and flower moisture transpiration-controlling composition  
 comprising energy source (0.1 wt.%), antimicrobial(s) (5 wt. ppm), buffer  
 (1 ppm), and carriers and adjuncts (balance)  
 (2) a method of enhancing the longevity of cut flowers by contacting  
 the cut ends of the flowers with the above composition as a vase additive  
 solution.  
 USE - The composition is used for controlling plant and flower  
 moisture transpiration, and for improving the longevity of cut flowers.  
 ADVANTAGE - The composition can effectively control the plant or  
 flower moisture transpiration, allowing then the flowers to be cut and  
 displayed without pejorative effects of natural demise (senescence) e.g.,  
 wilting or loss of petals, or browning or discoloration of flower parts.  
 Dwg.0/0  
 FS CPI  
 FA AB; GI; DCN  
 MC CPI: C04-C02; C10-A07; **C10-A22**; C12-M07; C12-M11D; C14-A01;  
 C14-T02; E07-A02H; E07-F01; E10-A22A; G04-B  
 TECH UPTX: 20010914  
 TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Component: The source of  
 energy maybe saccharide (preferably **glucose**), oligosaccharide,  
 and/or polysaccharide. The antimicrobial maybe 2-methyl-4-isothiazolin-3-  
 one, and/or 5-chloro-2-methyl-4-isothiazolin-3-one. It can also be a  
 quaternary ammonium compound of formula (I).  
 R1, R2 = 8-20C alkyl and/or benzyl;  
 R3, R4 = 1-4C alkyl;  
 X = anion.  
 Preferred Conditions: The composition has 2-5 pH.  
 Preferred Composition: The aqueous composition comprises an energy source

(0.1 wt.%), antimicrobial system (1 wt. ppm), buffer (10 wt. ppm), and carriers and adjuncts (balance). The antimicrobial system contains isothiazolone antimicrobials (1-99 wt.%) and (I) (1-99 wt.%). The composition can also be a granular composition adapted to be diluted with a carrier. This granular composition comprises (wt.%) the energy source (75), the antimicrobial system (0.01), the buffer (0.98), and the adjuncts (balance).

ABEX UPTX: 20010914

EXAMPLE - A transpiration-controlling composition comprising **glucose** (1.5 wt.%), didodecyl dimethylammonium chloride and water was prepared.

L196 ANSWER 5 OF 5 WPIX (C) 2003 THOMSON DERWENT

AN 1992-383555 [47] WPIX

DNC C1992-170127

TI Multipurpose disinfectant solns., suitable for personal use - comprising isothiazolinic cpds. and e.g. quat. ammonium salt, phenol deriv. or urea imidazolidinyl deriv..

DC A97 C02 C03 D21 D22 E19 E34

IN MAGNI, A

PA (GERM-N) GERMO SPA

CYC 13

PI EP 513637 A2 19921119 (199247)\* EN 7p A01N043-80 <--  
R: AT BE CH DE DK ES FR GB GR IT LI NL SE

EP 513637 A3 19930616 (199405) A01N043-80 <--

IT 1247918 B 19950105 (199522) A01N000-00

ADT EP 513637 A2 EP 1992-107585 19920505; EP 513637 A3 EP 1992-107585 19920505; IT 1247918 B IT 1991-MI1285 19910510

PRAI IT 1991-MI1285 19910510

REP No-SR.Pub; 1.Jnl.Ref; CA 1131404; DE 3233607; EP 337624; JP 62263380; US 4173643

IC ICM A01N043-80

ICI A01N031:08, A01N033:12, A01N043-80, A01N043:80, A01N047:36, A01N047:44, A01N059:00; A01N031:08, A01N033:12, A01N043-80, A01N043:80, A01N047:36, A01N047:44, A01N059:

AB EP 513637 A UPAB: 19931116

Disinfectant compsn. consisting of solns. comprising at least an isothiazolinic cpd. associated with at least one of the following active principles: quat. ammonium salts; phenol derivs.; urea imidazolidinyl derivs.; poly(hexamethylenbiguanide); sodium hypochlorite.

The compsn. comprises: 0.000001-0.15 wt.%, pref. 0.000005-0.002 wt.%, isothiazolinic cpds.; 0.1-10 wt.%, pref. 0.8-3 wt.%, quat. ammonium salts; 0.02-2 wt.%, pref. 0.1-1 wt.%, phenol derivs.; 0.03-3 wt.%, pref. 0.3-3 wt.%, urea imidazolidinyl derivs.; 0.5-10 wt.% poly(hexamethyleneguanide); 1-15 wt.% pref. 3-6 wt.%, sodium hypochlorite.

The isothiazolinic cpd. is pref. a mixt. of 5-chloro-2-methyl-4-isothiazolin-3-one (I) and 2-methyl-4-isothiazolin-3-one (II).

USE/ADVANTAGE - The compsns. can be used for persons, cloths, objects for personal use and furnishings; they are esp. suitable for destroying hyphomycetes. The compsns. destroy fungi colonies and at the same time perform a total sterilisation at low concns. which do not irritate the skin. They are also effective against. bacteri

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: A05-J07; A05-J11; A12-V03C1; A12-W12; C05-A01B; C07-D07; C10-A17; C10-A21; C10-H01; C12-A01; D08-B09B; D09-A01C; E07-F01; E10-A22A; E10-E02E; E31-C

=> d his

(FILE 'HOME' ENTERED AT 12:40:03 ON 10 MAY 2003)

## SET COST OFF

FILE 'HCAPLUS' ENTERED AT 12:40:21 ON 10 MAY 2003

E US20010042341/PN  
L1 1 S E3  
E HAMERSKY M/AU  
L2 44 S E3-E6  
E SMITH S/AU  
L3 609 S E3,E12-E14  
E SMITH STEVE/AU  
L4 40 S E3,E7  
L5 156 S E11,E15,E17  
E PG/PA,CS  
L6 923 S E3,E4  
E P&G/PA,CS  
E P AND G/PA,CS  
L7 1 S E5,E6  
L8 11186 S (PROCT?(L)GAMB?)/PA,CS  
L9 1 S L1 AND L2-L8  
SEL RN

FILE 'REGISTRY' ENTERED AT 12:42:15 ON 10 MAY 2003

L10 16 S E1-E16  
L11 1 S L10 AND NSC3/ES  
L12 1 S 26172-55-4  
L13 1 S 2682-20-4  
L14 288 S 26172-55-4/CRN  
L15 163 S 2682-20-4/CRN  
L16 94 S L14 AND L15  
L17 93 S L16 NOT L11  
L18 83 S L14,L15 NOT MXS/CI  
L19 4 S L18 NOT (COMPD OR WITH)  
E 16.L71.1/RID  
E 16.171.1/RID  
L20 1827 S E18  
L21 14585 S E2 NOT L20  
L22 3 S (SUCROSE OR GLUCOSE)/CN  
L23 8 S (CITRIC ACID OR ITACONIC ACID OR MALONIC ACID OR MALEIC ACID  
SEL RN  
L24 79115 S E1-E8/CRN  
L25 29494 S L24 NOT ((MXS OR PMS OR IDS OR MNS)/CI OR COMPD OR WITH OR UN  
L26 19 S C9H8O4 AND L25  
L27 7 S L26 AND 1/NR  
L28 29475 S L25 NOT L26  
L29 27370 S L28 AND NR>=1  
L30 2105 S L28 NOT L29  
L31 2098 S L30 NOT CONJUGATE  
L32 445 S L31 NOT SALT  
L33 1653 S L31 NOT L32  
L34 1 S L10 AND NSC3-C6/ES  
L35 10 S L10 NOT L11-L13,L19,L22,L23,L27,L31-L34  
SEL RN 2 4 5 6  
L36 4 S E9-E12  
L37 6 S L35 NOT L36  
L38 1 S 350690-53-8  
L39 3 S L37 AND N/ELS  
L40 1 S L37 AND OC5/ES  
SEL CHEM L11

FILE 'HCAPLUS' ENTERED AT 13:54:17 ON 10 MAY 2003

L41 21601 S E13-E53  
L42 402 S L11  
L43 21199 S L41 NOT L42

L44 158 S L43 NOT "A 14"  
L45 560 S L42,L44

FILE 'REGISTRY' ENTERED AT 13:56:00 ON 10 MAY 2003  
SEL CHEM L12

FILE 'HCAPLUS' ENTERED AT 13:56:07 ON 10 MAY 2003  
L46 878 S E54-E68  
L47 736 S L12

FILE 'REGISTRY' ENTERED AT 13:57:02 ON 10 MAY 2003  
SEL CHEM L13

FILE 'HCAPLUS' ENTERED AT 13:57:07 ON 10 MAY 2003  
L48 4874 S E69-E86  
L49 592 S L13  
L50 4282 S L48 NOT L49  
L51 296 S L50 NOT MIT  
L52 33 S L19  
L53 1435 S L45,L46,L47,L49,L51,L52  
L54 2030 S L20  
L55 2810 S L21

FILE 'REGISTRY' ENTERED AT 13:59:37 ON 10 MAY 2003  
SEL CHEM L34

FILE 'HCAPLUS' ENTERED AT 13:59:57 ON 10 MAY 2003  
L56 13864 S E87-E115  
L57 671 S L34  
L58 13193 S L56 NOT L57  
L59 968 S L58 NOT BIT  
L60 6099 S L53,L54,L55,L57,L59  
L61 2 S L38  
L62 2 S NIOLON#  
L63 2 S L61,L62  
L64 6623 S ?ISOTHIAZOL?  
L65 8524 S L60,L64  
L66 3 S L65 AND L40  
L67 111 S L65 AND (GLUCOSE OR SUCROSE)  
L68 3 S L65 AND L40  
L69 3 S L65 AND ISOMALTOSE  
L70 62 S L65 AND ?SACCHARIDE?  
E SACCHARIDES/CT  
E E3+ALL  
L71 1700 S E1  
E E3+ALL  
L72 284880 S E3+NT  
E SACCHARIDES/CT  
E E3+ALL  
E E4+ALL  
L73 144785 S E4,E3+NT  
E SACCHARIDES/CT  
E E3+ALL  
E E5+ALL  
L74 410197 S E4,E3+NT  
E DISACCHARIDES/CT  
E DISACCHARIDES/CT  
E E3+ALL  
L75 98012 S E5,E4+NT  
E TRISACCHARIDES/CT  
E E3+ALL  
L76 20686 S E5,E4+NT  
L77 479 S L65 AND L71-L76

L78 537 S L66-L70,L77  
L79 58 S L78 AND L23,L33  
L80 0 S L78 AND L32  
L81 63 S L78 AND (CITRIC OR ITACONIC OR MALONIC OR MALEIC OR CAFFEIC O  
L82 12 S L78 AND (NA OR SODIUM) ( ) CITRATE  
L83 23 S L78 AND BUFFER?  
L84 96 S L79-L83  
L85 43 S L65 AND L36  
L86 4 S L65 AND L39

FILE 'REGISTRY' ENTERED AT 14:10:40 ON 10 MAY 2003  
SEL CHEM L36

FILE 'HCAPLUS' ENTERED AT 14:10:45 ON 10 MAY 2003

L87 1463 S E1-E67  
L88 47 S L65 AND L87  
L89 48 S L85,L86,L88  
E QUATERNARY AMMON/CT  
E E7+ALL  
L90 345 S L65 AND E4,E5,E3+NT  
E QUATERNARY AMMON/CT  
E E4+ALL  
L91 3 S L65 AND E2  
L92 114 S L65 AND E4  
L93 350 S L89-L92  
L94 19 S L93 AND L79  
L95 26 S L93 AND L84  
L96 26 S L94,L95

FILE 'REGISTRY' ENTERED AT 14:13:40 ON 10 MAY 2003

FILE 'HCAPLUS' ENTERED AT 14:13:55 ON 10 MAY 2003

SET SMARTSELECT ON  
L97 SEL L65 1- RN : 51659 TERMS  
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 14:14:29 ON 10 MAY 2003

L98 51654 S L97

FILE 'HCAPLUS' ENTERED AT 14:17:19 ON 10 MAY 2003

L99 8524 S L65 OR L65  
L100 4250 S L99 RAN=(114:101985,)  
L101 4274 S L99 RAN=(,114:101535)

FILE 'REGISTRY' ENTERED AT 14:19:18 ON 10 MAY 2003

FILE 'HCAPLUS' ENTERED AT 14:19:18 ON 10 MAY 2003

SET SMARTSELECT ON  
L102 SEL L101 1- RN : 50384 TERMS  
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 10 MAY 2003

L103 50297 S L102

FILE 'HCAPLUS' ENTERED AT 14:23:39 ON 10 MAY 2003

SET SMARTSELECT ON  
L104 SEL L100 1- RN : 51659 TERMS  
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 14:24:02 ON 10 MAY 2003

L105 51654 S L104

FILE 'HCAPLUS' ENTERED AT 14:27:06 ON 10 MAY 2003

L106 1525 S L99 RAN=(,79:106006)

FILE 'REGISTRY' ENTERED AT 14:27:57 ON 10 MAY 2003

FILE 'HCAPLUS' ENTERED AT 14:27:57 ON 10 MAY 2003

SET SMARTSELECT ON

L107 SEL L106 1- RN : 17276 TERMS  
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 14:28:35 ON 10 MAY 2003

L108 17242 S L107  
L109 114949 S L98,L103,L105,L108  
L110 STR  
L111 1 S L110 SAM SUB=L109  
L112 312 S L110 FUL SUB=L109

FILE 'HCAPLUS' ENTERED AT 14:32:20 ON 10 MAY 2003

FILE 'REGISTRY' ENTERED AT 14:34:00 ON 10 MAY 2003

L113 221 S L112 NOT (COMPD OR WITH OR MXS/CI OR IDS/CI OR PMS/CI)  
L114 58 S L113 NOT O/ELS  
L115 26 S L114 AND NR>=1  
L116 20 S L115 AND 46.150.18/RID  
L117 18 S L116 AND 1/N  
L118 17 S L117 NOT S/ELS  
L119 32 S L114 NOT L115  
L121 2 S L\*\*\* AND 1/NC  
L122 28 S L\*\*\* AND 1/N  
L123 20 S L122 NOT (CD OR B OR IN)/ELS  
L124 38 S L117,L118,L121,L123  
L125 43 S L36,L39,L124  
L126 5 S L125 AND (S OR I)/ELS  
L127 3 S L126 NOT (S/ELS OR C10H15IN)  
L128 2 S L126 NOT L127  
L129 41 S L125 NOT L128

FILE 'HCAPLUS' ENTERED AT 14:42:36 ON 10 MAY 2003

L130 135 S L129 AND L65  
L131 8 S L130 AND L79  
L132 13 S L130 AND L84  
L133 26 S L131,L132,L96  
L134 8 S L133 AND L1-L9  
L135 26 S L133,L134,L63  
L136 4 S L135 AND 5/SC,SX  
L137 5 S L134 NOT L136  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:46:38 ON 10 MAY 2003

L138 29 S E1-E29  
L139 15 S L138 AND (ALGINIC OR CAROB OR GLUCONIC OR CELLULOSE OR TRAGAC

FILE 'HCAPLUS' ENTERED AT 14:48:40 ON 10 MAY 2003

L140 5 S L139 AND L137  
L141 5 S L137,L140  
L142 17 S L135 NOT L136,L141  
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:49:41 ON 10 MAY 2003

L143 78 S E30-E107  
L144 10 S L143 AND L139  
L145 2 S L143 AND L22,L40  
L146 5 S L143 AND OC5/ES  
L147 16 S L144-L146

L148 15 S L147 NOT C6-C6-C6/ES  
L149 62 S L143 NOT L147  
L150 12 S L149 AND NSC3/ES  
L151 50 S L149 NOT L150  
L152 47 S L151 NOT OC4/ES  
L153 1 S L152 AND C22H30CL2N10

FILE 'HCAPLUS' ENTERED AT 14:52:44 ON 10 MAY 2003

L154 22 S L137,L142  
L155 22 S L143-L153 AND L154

FILE 'HCAPLUS' ENTERED AT 14:54:30 ON 10 MAY 2003

L156 4 S L136 AND L1-L9,L41-L96  
L157 4 S L136 AND L99-L101  
L158 4 S L136 AND L130-L137,L140-L142,L154,L155  
L159 4 S L156-L158

FILE 'HCAPLUS' ENTERED AT 15:00:44 ON 10 MAY 2003

L160 17 S L142 AND L1-L9,L41-L96,L99-L101,L130-L137,L140-L142,L154,L15  
SEL DN AN 15 16  
L161 15 S L160 NOT E108-E113  
L162 3 S L159 AND L1-L9  
SEL PN APPS

FILE 'WPIX' ENTERED AT 15:04:00 ON 10 MAY 2003

L163 3 S E114-E134  
E R08264+ALL/DCN  
L164 196 S E1  
E R08266+ALL/DCN  
L165 167 S E1  
E R16657+ALL/DCN  
L166 231 S L164,L165  
L167 87 S E3-E10  
L168 5991 S F720/M0,M1,M2,M3,M4,M5,M6  
L169 5993 S L164-L168  
L170 5933 S (C07-F01 OR B07-F01)/MC  
L171 1549 S A01N043-80/IC,ICM,ICS  
L172 7061 S L170,L171  
L173 11 S L172 AND A01N003/IC,ICM,ICS,ICA,ICI  
L174 92 S L172 AND (C10-A22 OR B10-A22 OR C10-A21 OR B10-A21 OR E10-A22  
L175 0 S L172 AND C07C211-62/IC,ICM,ICS,ICA,ICI  
L176 241 S L172 AND A01N033/IC,ICM,ICS,ICA,ICI  
L177 20 S L172 AND A01N033-02/IC,ICM,ICS,ICA,ICI  
L178 37 S L172 AND A01N033-12/IC,ICM,ICS,ICA,ICI  
L179 5 S L172 AND A61K031-14/IC,ICM,ICS,ICA,ICI  
L180 8 S L172 AND A61K031-205/IC,ICM,ICS,ICA,ICI  
L181 3 S L172 AND A61K047-18/IC,ICM,ICS,ICA,ICI  
L182 3 S L172 AND C08K005-17/IC,ICM,ICS,ICA,ICI  
L183 1 S L172 AND C08K005-19/IC,ICM,ICS,ICA,ICI  
L184 2 S L172 AND C11D001-62/IC,ICM,ICS,ICA,ICI  
L185 135 S L174,L177-L184  
L186 3 S L185 AND L173  
L187 3 S L163,L186  
L188 12 S L185 AND (GLUCOSE OR SUCROSE)/BIX  
E GLUCOSE/DCN  
E E3+ALL  
L189 3 S L185 AND (E2 OR 0038/DRN)  
E SUCROSE/DCN  
E E3 ALL  
E SUCROSE+ALL/DCN  
L190 4 S L185 AND (E2 OR 0135/DRN)  
L191 6 S L189,L190  
L192 12 S L187,L188,L191

L193            8 S L173 NOT L187  
L194           43 S L164-L167 AND L173-L193  
              SEL DN AN 10 37  
L195           2 S L194 AND E1-E4  
L196           5 S L187,L195 AND L163-L195

FILE 'WPIX' ENTERED AT 15:25:54 ON 10 MAY 2003  
SET COST ON